List of Attachments for Public Hearing Item No. 2

- Water Rate Increase

Attachments:

2-A	Ordinance No. 120.47 – Water Rate Increase
2-B	Water Rates Frequently Asked Questions (FAQs)
2-C	City of Milpitas Water Rate Study – December 8, 2015
2-D	Proposition 218 – Notice of Public Hearing on Water Rates

REGULAR 2A

NUMBER:	120.47				
TITLE:		COUNCIL OF THE CITY OF MILPITAS AMENDING THE MILPITAS MUNICIPAL CODE RELATING TO			
HISTORY:	upon motion by Councilmember Giorda	rading) by the City Council at its meeting of October 6, 2015, no, and was adopted (second reading) by the City Council at its n by Said Ordinance was duly passed h law by the following vote:			
	AYES:				
	NOES:				
	ABSENT:				
	ABSTAIN:				
ATTEST:		APPROVED:			
Mary Lavelle, C	Lity Clerk	Jose S. Esteves, Mayor			
APPROVED AS	S TO FORM:				
Christopher J. D	riaz, City Attorney				

1

RECITALS AND FINDINGS:

WHEREAS, the provision of potable and recycled services by the City of Milpitas ("City") require the City to incur capital, operating, maintenance, replacement, and other costs related to the provision of such services; and

WHEREAS, the City engaged Bartle Wells Associates to prepare a cost of service analysis and water rate study (the "Rate Study"); and

WHEREAS, as a result of the Rate Study, the City Council has determined that increases in the rates for its water service charges are in the best interests of the City and in keeping with sound business and financial management of the water enterprises; and

WHEREAS, the City Council hereby finds and determines the following with regard to the proposed rate increases to the water service charges:

- 1. The rate structure for the water service charges has two components: (a) a Water Meter Charge, which is a fixed bimonthly charge determined on the basis of the size of the water meter (in inches) serving a customer's property and calculated to recover a portion of the City's fixed costs in providing water service; and (b) a Volumetric Charge, which is a uniform rate imposed on the basis of the amount of water delivered to a customer in hundreds of cubic feet ("HCF") and calculated to recover a portion of the City's fixed and variable costs of providing water service; and
- 2. The rate structure also has a Fire Meter Charge which is: (a) imposed on certain properties requiring a large private fire suppression system, and upon the request of the customer or property owner for the delivery of water to the property for the purpose of fire service protection; and (b) established on the basis of the size of the fire service line (in inches) and calculated to recover the cost of providing water to such properties for private fire service protection; and
- 3. Beginning April 1, 2016, the rate structure will also include a Capital Surcharge, which will be imposed on the basis of the amount of water delivered to a customer in HCF and calculated to recover capital costs of the water system; and

WHEREAS, the City hereby finds and determines that in accordance with the provisions of California Constitution article XIII D, section 6 ("Article XIII D"):

- 1. The City identified the parcels upon which the water service charges are proposed to be imposed, and calculated the amount of the water service charges proposed to be imposed on each parcel; and
- 2. The City caused a written notice to be mailed to the record owners of property upon which the proposed water service charges will be imposed and the customers of each parcel upon which the proposed increases to the water service charges are proposed for imposition, which explained:

 (a) the amount of the water service charges; (b) the basis on which they were calculated; (c) the reason for the increases; and (d) the date, time, and location of the public hearing on the proposed increases; and
- 3. On December 15, 2015, (more than 45 days after mailing the notice), the City conducted a public hearing and considered all written protests against the proposed increases to the rates for the water service charges; and

2

Ordinance No. 120 47

4. At the conclusion of the public hearing, written protests against the proposed increases to the rates for the water service charges were not presented by a majority of property owners of record and customers subject to the proposed water service charges; and

WHEREAS, the adoption of the proposed increases to water service charges are statutorily exempt from the requirements of the California Environmental Quality Act under California Resources Code Section 21080(b)(8).

NOW THEREFORE, the City Council of the City of Milpitas does ordain as follows:

SECTION 1. RECORD AND BASIS FOR ACTION

The City Council has duly considered the full record before it, which may include but is not limited to such things as the Rate Study, City staff report, testimony by staff and the public, and other materials and evidence submitted or provided to the City Council. Furthermore, the recitals set forth above are found to be true and correct and are incorporated herein by reference.

SECTION 2. AMENDMENT OF MILPITAS MUNICIPAL CODE VIII-1-6.13

Section VIII-1-6.13 of the Milpitas Municipal Code is hereby repealed in its entirety and replaced with the text below to read as follows:

VIII-1-6.13 Quantity Charges

The quantity charges include a volumetric charge and a capital surcharge. The uniform rates for the quantity charges are billed bimonthly and imposed per hundred cubic feet ("HCF") for metered water service. The rates and effective dates for the quantity charges shall be those set forth below.

RATES AND EFFECTIVE DATES FOR QUANTITY CHARGES (\$/HCF)						
Customer Class	Volumetric Charge 1/15/2016	Volumetric Charge 4/1/2016	Capital Surcharge 4/1/2016			
Residential:	\$4.75	\$5.13	\$1.30			
Commercial / Industrial / Institutional / Construction Meter	\$4.75	\$5.13	\$1.30			
Irrigation (potable)	\$4.75	\$5.13	\$1.30			
City Accounts (potable)	\$4.75	\$5.13	\$1.30			
Ed Levin Park	\$3.75	\$3.79*	NA			
Recycled - Irrigation	\$2.42	\$2.78	NA			
Recycled - Industrial / Dual Plumbed/ Construction Water	\$2.42	\$2.78	NA			
City Accounts (recycled)	\$2.42	\$2.78	NA			

The County of Santa Clara rate is established by contract to be equivalent to the San Francisco Public Utilities Commission ("SFPUC") wholesale rate. The FY 2016-17 SFPUC rate is estimated to be \$3.79/HCF and staff will revise to actual rate once SFPUC adopts the FY 2016-17 wholesale rate.

3

FY = Fiscal Year

1 HCF = One Hundred Cubic Feet = 748 Gallons

SECTION 3. AMENDMENT OF MILPITAS MUNICIPAL CODE VIII-1-6.14

Section VIII-1-6.14 of the Milpitas Municipal Code is hereby repealed in its entirety and replaced with the text below to read as follows:

VIII-1-6.14 Bimonthly Water Meter Charges

(a) Water Meter Charges: The rates and the effective dates for the bimonthly water meter charges, determined on the basis of the size of the water meter, shall be as follows:

RATES AND EFFECTIVE DATES FOR WATER METER CHARGES (\$/METER SIZE)					
Water Meter Size Charge 1/15/2016 Charge 4/1/2016					
5/8"	\$18.00	\$19.44			
3/4"	\$27.00	\$29.16			
1"	\$45.00	\$48.60			
1-1/2"	\$90.00	\$97.20			
2"	\$144.00	\$155.52			
3"	\$270.00	\$291.60			
4"	\$450.00	\$486.00			
6" and above	\$900.00	\$972.00			

(b) For Temporary Construction Meter Customers, the bimonthly water meter charges shall be equal to the bimonthly water meter charges for 3" water meters set forth in Section 6.14(a).

No adjustments shall be granted to any water account holder due to variation in the days of service for any bimonthly billing period. Acceptable days of service range from 50 to 69 days per bimonthly billing period.

SECTION 4. AMENDMENT OF MILPITAS MUNICIPAL CODE VIII-1-6.15

Section VIII-1-6.15 of the Milpitas Municipal Code is hereby repealed in its entirety and replaced with the text below to read as follows:

VIII-1-6.15 Fire Service Charges

The rates and effective dates for the bimonthly fire service charges, determined on the basis of the size of the fire service, shall be as follows:

RATES AND EFFECTIVE DATES FOR FIRE SERVICE CHARGE (\$/SIZE OF FIRE SERVICE LINE)							
	Charge 1/15/2016 Charge 4/1/2016						
Fire Service Line Size	Fire Service Line Size						
2"	\$28.80	\$31.10					
3"	\$54.00	\$58.32					
4"	\$90.00	\$97.20					
6"and above	\$180.00	\$194.40					

Water flowing through fire suppression systems shall be used solely for the purpose of fire protection and testing of such fire protection systems. In the event that water service provided through fire suppression systems is used for purposes other than for fire protection or the testing of such fire

Ordinance No. 120.47

protection systems, the quantity charges equal to the quantity charge rates (per HCF) for Commercial/ Industrial/ Institutional customers shall be imposed .

SECTION 5. AMENDMENT OF MILPITAS MUNICIPAL CODE VIII-1-6.16

Section VIII-1-6.16 of the Milpitas Municipal Code is hereby repealed in its entirety and replaced with the text below to read as follows:

VIII-1-6.16 Billing and Effective Dates of Water Rates and Charges

Billing. After the Ordinance adopting the charges set forth in this Section goes into effect, customers shall be subject to the water service charges at the rates and on the effective dates set forth in 6.13 (Quantity Charges), 6.14 (Bimonthly Water Meter Charges), and 6.15 (Fire Service Charges), for services provided on or after January 15, 2016, and April 1, 2016, respectively. In the absence of amendment of the rates set forth herein or adoption of a new rate ordinance, the rates in effect on April 1, 2016, and set forth herein shall remain in effect until amended or repealed.

SECTION 6. SEVERABILITY

If any section, subsection, subdivision, sentence, clause, phrase, or portion of this Ordinance, or the application thereof to any person or place, is for any reason held to be invalid or unconstitutional by a court of competent jurisdiction, such decision shall not affect the validity of the remainder of this Ordinance. The City Council hereby declares that it would have adopted this Ordinance, and each and every section, subsection, subdivision, sentence, clause, phrase, or portion thereof, irrespective of the fact that any one or more sections, subsections, subdivisions, sentences, clauses, phrases, or portions thereof be declared invalid or unconstitutional, provided, however, that if any decision of a court of competent jurisdiction invalidates the increase of the water service charges set forth in this Ordinance, then the water service charges in effect on the date of adoption shall continue in existence.

SECTION 7. ORDINANCE PREVAILS

To the extent that any other provision of local law relating to the establishment of water charges is inconsistent with this Ordinance, the provisions of this Ordinance shall prevail. This Ordinance shall supersede all other previous City Council resolutions and ordinances that may conflict with, or be contrary to, this Ordinance.

SECTION 8. EFFECTIVE DATE AND POSTING

This Ordinance shall take effect thirty (30) days from and after the date of its passage. The City Clerk of the City of Milpitas shall cause this Ordinance or a summary thereof to be published in accordance with Section 36933 of the Government Code of the State of California.

5

Ordinance No. 120.47

Water Rates Frequently Asked Questions 2B

The City of Milpitas is committed to maintaining critical infrastructure and complying with all applicable laws, rules and regulations to deliver safe, dependable and efficient water and recycled water service to our customers. The City strives to maintain the affordability of these services. The City needs to increase rates for water and recycled water services in order to cover rising costs from water wholesalers as well as planned capital improvements to the water and recycled water systems. Rates are determined based on the proposed budgeted expenditures for both capital and operational expenses. The use of, or replenishment of financial reserves during a given fiscal year will also influence rates. In order to calculate rates, the City prepares estimates of the amount of water that will be sold in the coming fiscal year. These factors are important since the revenue from the rates go to pay for purchasing water and operating and capital expenses.

1. How much will my water rate go up?

<u>Low Use Customer</u>: 5 HCF/ month (1 HCF = 748 gallons so Low Use Customers use 3,740 gallons per month). The City bills on a bi-monthly basis and the Low Use Customer uses 10 HCF per bimonthly billing period. This Low Use Customer has a 5/8" water meter, which is typical of Single Family Homes in Milpitas.

Low Use Customer has a 5/8" water meter, which is typical of Single Family Homes in Milpitas. Low Use Customer's Current Bill (Existing charge rates) = Fixed Meter + Amount of 1st 1st Tier Volumetric Charge Х Bi Monthly Charge Tier Water Used **Current Bill** \$53.56 = \$27.36 + (10 HCF) (\$2.62) Х Low Use Customer's March 2016 Bill (Step 1 implemented) + Amount of (Volumetric + Capital = Fixed Meter Х Bi Monthly Charge Water Used Charge Surcharge) March 2016 Bill = \$18.00 + (10 HCF) (\$4.75 + \$0.00) \$65.50 Х Low Use Customer's July 2016 Bill (Step 2 implemented) + Amount of (Volumetric = Fixed Meter Х + Capital Bi Monthly Charge Water Used Charge Surcharge) July 2016 Bill = \$19.44 + (10 HCF) + \$1.30) \$83.74 (\$5.13 Х

Average (Medium) Use Customer. 8.5 HCF/ month (1 HCF = 748 gallons so Average (Medium) Use Customers use 6,358 gallons per month). The City bills on a bi-monthly basis and the Average (Medium) Use Customer uses 17 HCF per bimonthly billing period. This Average (Medium) Use Customer has a 5/8" water meter, which is typical of Single Family Homes in Milpitas.

Average (Medium) Use Customer's Current Bill (Existing charge rates)

x 2nd Tier Volumetric x 1st Tier Volumetric + Amount of 2nd = Fixed Meter + Amount of 1st Bi Monthly Charge Tier Water Used Charge Tier Water Used Charge Current Bill

= \$27.36 + (10 HCF) x (\$2.62) +(7 HCF) x(\$3.48)

Average (Medium) Use Customer's March 2016 Bill (Step 1 implemented)

+ Capital = Fixed Meter + Amount of (Volumetric Х Bi Monthly Charge Water Used Charge Surcharge) = \$18.00 + (17 HCF) (\$4.75 + \$0.00) Х

Average (Medium) Use Customer's July 2016 Bill (Step 2 implemented)

+ Amount of 1st x 1st Tier Vol. + Amount of 2nd

= Fixed Meter + Amount of (Volumetric + Capital Bi Monthly Charge Water Used Surcharge) Charge July 2016 Bill = \$19.44 + (17 HCF) (\$5.13 + \$1.30) \$128.75 Х

<u>High Use Customer</u>: 15HCF/ month (1 HCF = 748 gallons so High Use Customers use 11,220 gallons per month). The City bills on a bi-monthly basis and the High Use Customer uses 30 HCF per bimonthly billing period. This Average (Medium) Use Customer has a 5/8" water meter, which is typical of Single Family Homes in Milpitas.

x 2nd Tier Vol. +Amount of 3rd

High Use Customer's Current Bill (Existing charge rates)

Bi Monthly Charge Tier Water Used Tier Water Used Tier Water Used Charge Charge Charge x(\$3.48) = \$27.36 + (10 HCF) x (\$2.62) +(10 HCF) +(10 HCF) x (\$4.69) High Use Customer's March 2016 Bill (Step 1 implemented) = Fixed Meter + Amount of (Volumetric + Capital Bi Monthly Charge Water Used Surcharge) Charge = \$18.00 + \$0.00) + (30 HCF) Х (\$4.75

High Use Customer's July 2016 Bill (Step 2 implemented)

= Fixed Meter + Amount of (Volumetric Х + Capital Bi Monthly Charge Water Used Charge Surcharge) July 2016 Bill = \$19.44 + (30 HCF) (\$5.13 + \$1.30) \$212.34 Х

2. Why aren't we keeping the tiered rates so that customers who use less, pay less?

The City is committed to providing high quality, reliable water service at the lowest possible rates for our customers. It is critically important that the City continually invest in the assets it holds and keep pace with inflation and other cost increases. Each year the City evaluates its infrastructure needs, programs, and operations and maintenance costs for the ensuing fiscal year. This year the City hired an independent rate

=\$77.92

March 2016 Bill

\$98.75

Current Bill =\$107.90

March 2016 Bill

\$160.50

x 3rd Tier Vol.

consultant, Bartle Wells Associates, to determine how best to recover these projected costs over a two-year period. Based on the recommendation of Bartle Wells, and the analysis contained in the new rate study the City has determined that it is appropriate to change the structure of its rates. The proposed changes to the rate structure will result in more stable revenues to the City, which will be beneficial as the City moves forward with its large capital improvement program. The draft rate Study was submitted to Council as an attachment on the October 6, 2015 Council Meeting. The final report will be submitted to Council on December 15, 2015.

3. Why do rates need to be increased?

The proposed rate is designed to recover: a 10% increase in operational costs to cover the drought response program; costs of consultant support to maintain utility services and capital management tasks; and costs of additional permanent engineering and operations staff necessary for scheduled valve exercising and replacements, pipeline repairs, water system maintenance and flushing, inspection, and capital management. In addition, the City is faced with significant increases in the cost of the water is purchases from its wholesale water providers – San Francisco Public Utilities Commission (SFPUC) and Santa Clara Valley Water District (SCVWD). SFPUC increased the rate of its wholesale water by 28% and SCVWD increase the rate of its wholesale water by 20%. The rate increases will also fund an additional \$22 million of important capital projects, including replacement of aging infrastructure, construction of seismic improvements to increase water reliability, and expansion of our recycled water distribution system to reduce demand on the City's limited potable (i.e., drinking) water supplies. These capital projects will be added to the City's \$20 million approved Capital Improvement Plan that will now total \$42 million.

4. How do City of Milpitas rates compare with other cities?

Milpitas currently has one of the lowest rates for average residential water service charges in the South Bay. The proposed rates would place Milpitas in the upper middle of other South Bay cities and water retailers.

5. What are the City's costs? Is it making a profit on the rate increase?

The City does not make a profit from rate increases. Total water system operating costs in FY 2015/2016 are estimated to be \$21.7 million, with approximately 30% of operating costs (not including capital costs) attributed to fixed costs and 70% attributed to variable costs such as water purchased from SFPUC. If left unchanged, the current rates will be insufficient to cover the cost to provide water services to our customers.

6. What about recycled water? Can we use it to cut water costs?

Recycled water use helps to conserve potable water. Recycled water may reduce water costs in that less potable water is used for landscape and industrial purposes. SCVWD is researching the feasibility of using recycled water to recharge groundwater as a means of providing a more reliable water supply.

7. Why raise rates when we're going to have an El Niňo winter?

Lots of rain won't change the increased wholesaler water cost increases. Experts have advised that multiple years with higher than average rainfall are needed to replenish water supplies in California. Additionally, the rates are required to fund improvements to the City's aging infrastructure. A \$20 million capital improvement project, with an added \$22 million of critical projects that must be completed right away, including pipeline relocations, valve and system replacements, and a way for the City to expand its water supply portfolio (such as improving groundwater pumps) are necessary to ensure that the City has the ability to provide safe and reliable water. These costs will be incurred, regardless of whether an El Niňo occurs this winter.

8. Why is it always residents that have to conserve water?

Total residential water in the City is greater than total business/industrial water use. Thirty-five percent of water residents' use is in the bathroom. We can take shorter showers and look for leaky pipes and toilets, but these aren't uses we want to give up entirely. Approximately fifty percent of residential water use is for outdoor irrigation. Use of water for outdoor irrigation (landscape), particular during droughts and other water shortages, is considered to be the least essential use of water and the most flexible way to reduce consumption, for both residents and businesses.

9. What are businesses doing to save water?

Businesses in Milpitas that aren't using recycled water for landscaping have cut down drastically on outside watering. Maintenance managers look for ways to reduce water use by retrofitting faucets and toilets. Even processes that require water for rinsing a product have been reevaluated to save potable water and reduce costs. However, businesses—such as restaurants and cafes—still need water for food preparation and basic health and safety.

10. What is the percentage of water reduction we need to achieve and how are we doing?

On June 16, 2015, the Milpitas City Council called upon residents and business to reduce water use by 30%. While the State of California was only requiring the City to achieve a 12% water savings, the City Council adopted the 30% reduction goal as part of a regional effort to save water.

Since the City Council adopted its water conservation program in June, Milpitas residents and business have achieved a cumulative water savings of 22% from June through October, with a 32% savings in the month of August.

This water conservation effort meets the State of California requirement and demonstrates we can achieve our 30% reduction goal. Everyone needs to continue to work hard to save water by reducing irrigation, changing out old appliances, modifying existing appliances, and practicing water saving habits like shorter showers. SCVWD reports that since the beginning of the year, the County has saved 27%, just short of the local 30% goal.

For more information, visit the City of Milpitas Drought Website http://savewatermilpitas.org) or call 408-586-2666.

11. When can we have a senior rate discount?

Unfortunately, under Proposition 218 requirements, the City may not fund a senior rate or low income rate from its water service charges. Rather, such a discount is only possible if the discount is funded from other sources, such as the City's General Fund. Any money redirected from the General Fund would result in somewhere reduction in funding for other City services such as police and fire services, or libraries and park services. A discount or subsidy is not a sustainable alternative for the City.



City of Milpitas

Water Rate Study

December 8th, 2015



BARTLE WELLS ASSOCIATES

Independent Public Finance Consultants 1889 Alcatraz Avenue Berkeley, California 94703 www.bartlewells.com Tel: 510/653-3399

Contents

Section 1: Executive Summary	3
Current & Proposed Water Rates	4
Summary of Water Rate Study Recommendations	5
Section 2: Proposition 218	6
Constitutional Rate Requirements	6
Article 13D, Section 6	6
Use of Generally Accepted Rate-Making Principles	7
Cost of Service Rate-Setting Methodology	1
Section 3: Cost Attributions	9
Operating Costs	9
Volumetric Charges	11
Meter Charges	16
Capital Costs	19
Capital Surcharges	20
Section 4: Rate Increases	23
Drought Penalty (for information only, not included in the proposed rates)	23
Proposed Rate Schedule	26
Appendix A – Residential Bill Impacts	27
Appendix B – Regional Rate Survey	29
Appendix C – Financial Detail	32

SECTION 1: EXECUTIVE SUMMARY

The City of Milpitas (City) provides water service to residential, commercial, industrial, and institutional customers located within the City's boundaries. The City was incorporated as a general law city on January 26, 1954 and operates under a council/manager form of government. The City encompasses 13.6 square miles in Santa Clara County, near the southern end of the San Francisco Bay, and has a population of about 70,000.

In 2015 Bartle Wells Associates (BWA) was retained to perform an analysis of the existing water rate structure and to recommend adjustments.

This update to the City's water rates is based on the following main factors:

- 1. BWA's proposed rates would come into effect beginning January 15th, 2016, providing a partial year of increased revenue in fiscal year (FY) 2015/16.
- 2. The City purchases all of its water from 3rd party wholesalers and is facing substantial cost increases, including San Francisco Public Utilities Commission (SFPUC) wholesale rate increases of 28% and Santa Clara Valley Water District (SCVWD) wholesale rate increases of 20%.
- 3. The City's water enterprise is in good financial standing, with an estimated \$7.2 million in operating reserves as of July 1st, 2015; however, until a rate increase is adopted, the water enterprise is losing funds estimated to be approximately \$400,000 per month.
- 4. The City has identified approximately \$42 million of high priority capital improvement projects needed over the next 5 years. The rate study utilizes a combination of cash and debt funding for these projects.
- 5. The City anticipates substantial reductions in water consumption due to the ongoing drought. In FY 2014/15 total water use fell 5% from the prior year. In FY 2015/16 water consumption is estimated to decrease by an additional 20%. (The latest cumulative water conservation data (from November 2015) shows the City conserving about 20% over in 2015.)

This study provides a cost basis for proposed water service rates for the City of Milpitas in compliance with California Constitution article 13 D, section 6 (commonly referred to as Proposition 218). Rate increases for FY 2015/16 and FY 2016/17 are recommended in the analysis. The full schedule of current and proposed rates for the City's water service fees is shown on **Table 1**.

Current & Proposed Water Rates

Table 1
City of Milpitas - Water Rate Study
Current & Proposed Water Rate Schedule

Fixed Meter Charges (\$/Meter Size)

	300 (4:11101010101)		
	Proposed		
Current bimonthly rate	FY 15-16 bimonthly rate	FY 16-17 bimonthly rate	
\$27.36	\$18.00	\$19.44	
\$29.07	\$27.00	\$29.16	
\$41.28	\$45.00	\$48.60	
\$52.07	\$90.00	\$97.20	
\$67.96	\$144.00	\$155.52	
\$181.95	\$270.00	\$291.60	
\$230.57	\$450.00	\$486.00	
\$351.86 - \$667.31	\$900.00	\$972.00	
	Current bimonthly rate \$27.36 \$29.07 \$41.28 \$52.07 \$67.96 \$181.95	Pro Current bimonthly rate FY 15-16 bimonthly rate \$27.36 \$18.00 \$29.07 \$27.00 \$41.28 \$45.00 \$52.07 \$90.00 \$67.96 \$144.00 \$181.95 \$270.00 \$230.57 \$450.00	

Fire Meter Charges (\$/Meter Size)

		3 (: ,	
Detector Check/	Current bimonthly rate	FY 15-16 bimonthly rate	FY 16-17 bimonthly rate
RPDa/DCDA			
2 inch	\$43.72	\$28.80	\$31.10
3 inch	\$65.68	\$54.00	\$58.32
4 inch	\$72.99	\$90.00	\$97.20
6 inch and above	\$94.92 - \$138.69	\$180.00	\$194.40

Volumetric Charges (\$/HCF)

Category	Current per HCF*	FY 15-16 base rate per	FY 16-17	FY 16-17
		HCF	base rate per	capital
			HCF	surcharge
				rate per HCF
Residential				
0-10	\$2.62	\$4.75	\$5.13	\$1.30
11-20	\$3.48	\$4.75	\$5.13	\$1.30
21-30	\$4.69	\$4.75	\$5.13	\$1.30
>30	\$5.29	\$4.75	\$5.13	\$1.30
Commercial	\$5.29	\$4.75	\$5.13	\$1.30
Industrial,				
Institutional,				
Construction	\$5.29	\$4.75	\$5.13	\$1.30
Potable Irrigation	\$5.29	\$4.75	\$5.13	\$1.30
Ed Levin Park**	\$3.08	\$3.75	\$3.79	NA
City of Milpitas	\$5.29	\$4.75	\$5.13	\$1.30
Recycled Irrigation	\$4.08	\$2.42	\$2.78	NA
Recycled				
Industrial, Dual-				
plumbed, Constructi				
on	\$2.65	\$2.42	\$2.78	NA
Recycled City of			_	
Milpitas	\$2.51	\$2.42	\$2.78	NA

^{* 1} HCF = 748 gallons

FY 16-17 SFPUC rate is estimated to be \$3.79/HCF and staff will revise to actual rate once SFPUC adopts the FY 16-17 wholesale rate.

^{**}County of Santa Clara rate is established by contract to be equivalent to the SFPUC wholesale rate.

Summary of Water Rate Study Recommendations

- **1. Implement a uniform volume rate instead of a tiered rate for all customers:** BWA recommends all customers pay a uniform volume rate for water use.
- 2. Adopt American Water Works Association (AWWA) capacity standards to scale fixed charges: Aligning fixed meter charges with AWWA guidelines for water meter flow capacity provides a standard cost basis for fixed meter charges. Meter charges are considered "availability" or "readiness-to-serve" charges for providing customers with access to water at all times. These constitute a fixed portion of the customers' bills because they are levied whether or not water is used.
- 3. Utilize a long-term debt financing to fund a portion of capital projects with long-term benefit: The City is facing a unique confluence of factors, including reduced water consumption from the drought and State-mandated cutbacks and a \$42 million capital improvement program planned over the next five years. The drought results in increased capital and operating expenses. Due to these factors, BWA recommends the City implement a \$25.5 million financing to smooth out the impact on rate payers and ensure intergenerational equity, which includes costs for all projects shown in Fiscal Years 2015/16, 2016/17, and 2017/18.
- **4. Recover capital costs through a capital program surcharge:** Since the City will be making substantial improvements to the water system, BWA recommends that the City breakout capital costs on each potable customer's bill. The capital surcharge allows users to see how much of their bill is going to fund water system capital improvements. Recycled water users are recommended to be charged a single rate due to the deminimis nature of the recycled capital surcharge.

SECTION 2: PROPOSITION 218

Constitutional Rate Requirements

The California Constitution includes one key article that directly governs or impacts the City's water rates: Article 13D. The water rates developed in this update are designed to comply with the constitutional mandates of Article 13D as well as various provisions of the California Water Code and Government Code that support and add further guidance for implementing these constitutional requirements. In accordance with the constitutional provisions, the proposed rates are designed to: a) recover the City's cost of providing service; and b) recover revenues in proportion to the cost for serving each customer.

Article 13D, Section 6

Proposition 218 was adopted by California voters in 1996 and added Articles 13C and 13D to the California Constitution. Article 13D, Section 6 governs property-related charges, which the California Supreme Court subsequently ruled includes charges for the ongoing delivery of utility service to property, such as charges for water services. Article 13D, Section 6 establishes a) procedural requirements for imposing or increasing property-related charges, and b) substantive requirements for the amount and use of those charges. Article 13D also requires voter approval for new or increased property-related charges but exempts from this voting requirement rates for water service.

The substantive requirements of Article 13D, Section 6 require the City's water rates to meet the following conditions:

- 1) Revenues derived from the fee or charge shall not exceed the funds required to provide the property related service.
- 2) Revenues derived from the fee or charge shall not be used for any purpose other than that for which the fee or charge was imposed.
- 3) The amount of a fee or charge imposed upon any parcel or person as an incident of property ownership shall not exceed the proportional cost of the service attributable to the parcel.
- 4) No fee or charge may be imposed for a service unless that service is actually used by, or immediately available to, the owner of the property in question.
- 5) No fee or charge may be imposed for general governmental services, such as police or fire services, where the service is available to the public at large in substantially the same manner as it is to property owners.

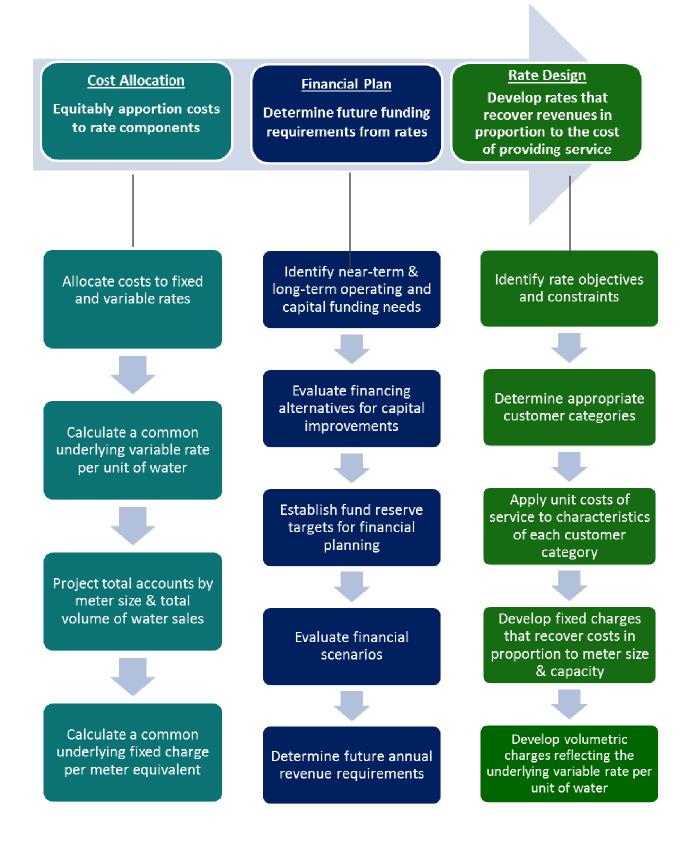
The water rates derived in this study are based on a cost-of-service methodology that fairly apportions costs to all customers.

Use of Generally Accepted Rate-Making Principles

The rates were developed using generally accepted cost-based principles and methodologies for establishing water rates, charges, and fees contained and discussed in the *AWWA's M1 Manual, Principles of Water Rates, Fees, and Charges, Sixth Edition, 2012.* In developing water rates, it is important to know that there is no "one-size-fits-all" approach for establishing cost-based water rates—"the (M1 Manual) is aimed at outlining the basic elements involved in water rates and suggesting alternative rules of procedure for formulating rates, thus permitting the exercise of judgment and preference to meet local conditions and requirements." ¹ The cost of service principals and methodology used to calculate the City's water rates is shown on the following page.

¹ AWWA Manual M1 Manual, Principles of Water Rates, Fees, and Charges, Sixth Edition, 2012, page 5.

Cost of Service Rate-Setting Methodology



SECTION 3: COST ATTRIBUTIONS

Operating Costs

In **Table 2** BWA determined the percentage of water system operating costs attributed to fixed costs (costs that do not vary based on use), and variable costs (costs that vary based on use). Total system operating costs in FY 2015/16 are estimated to be \$21.7 million, with approximately 30% of operating costs (not including capital costs) attributed to fixed costs and 70% attributed to variable costs.

Non-rate revenues, including subventions and grants, interest income, and miscellaneous revenue were subtracted from the operating expenses to determine the total water rate revenue requirement in FY 2015/16 (about \$21.45 million.)

The Study used Preliminary Budget information, which was the latest data that was available at the time. Estimates on future water sales volumes were calculated based upon drought program expectations. Water losses (which occur in all water systems) were included in the calculation for water purchases. Details on assumptions such as growth, water purchases, consumption characteristics of customer each class of customer, and drought related impacts and costs are shown in Appendix C.

Table 2 City of Milpitas - Water Rate Study Fixed vs. Variable Cost Attribution

	2015/16	Fix	xed Costs	Vari	able Costs
Operating Expenses					
SFPUC Wholesale Water ¹	\$10,083,024	0%	\$0	100%	\$10,083,024
SCVWD Wholesale Water ¹	2,291,200	0%	0	100%	2,291,200
Recycled Water Expenses ¹	810,590	0%	0	100%	810,590
Personnel Services ²	2,702,000	75%	2,026,500	25%	675,500
Transfers Out (General Fund Admin Cost Reimb.) ^{2 3}	2,461,000	75%	1,845,750	25%	615,250
Services and Supplies ²	1,994,000	75%	1,495,500	25%	498,500
Estimated Additional Operating Expenses ⁴	1,422,275	75%	1,066,706	25%	355,569
Total Operating Expenses	\$21,764,089	30%	\$6,434,456	70%	\$15,329,632
Less: Miscellaneous Revenue Offsets ⁵					
Subventions and Grants	\$45,000	50%	\$22,500	50%	\$22,500
Interest Income	98,000	50%	49,000	50%	49,000
Misc Revenue ⁶	<u>172,391</u>	50%	<u>86,196</u>	50%	<u>86,196</u>
	315,391		157,696		157,696
Operating Revenue Requirement	\$21,448,698	29%	\$6,276,761	71%	\$15,171,937

¹ Appendix C "Table 1 - Wholesale Water Purchases"

² Table 11 "Detailed Cash Flow Projection - Operating Fund"

³ The basis for the calculation for the Transfer Out (General Fund Admin Cost Reimb.) can be found in the City's Cost Allocation Plan on the City's website: http://www.ci.milpitas.ca.gov/_pdfs/15-16IndirectCostAllocationPlan.pdf

⁴ Appendix C "Table 9 - Additional Water Operating Expenses"

⁵ Estimated from 2014/15 City budget & fund balances.

⁶ Non-rate revenues excluded from revenue offsets of \$2,609 for Ed Levin Park

Volumetric Charges

The City of Milpitas obtains all of its water through wholesale purchases from three sources: San Francisco Public Utilities Commision (SFPUC), Santa Clara Valley District (SCVWD), and recycled water from the South Bay Recycling Program (SBWR). Total annual water purchases amount to 3.7 million hundred cubic feet (hcf), with total expected sales of about 3.4 million hcf (lower due to estimated water losses).

FY 2015/16 water purchases of 3.7 million hcf are estimated due to an expected 18% cutback in potable water purchases from 2014/15 actuals. The overall decrease in water purchases is based on City staff estimates and takes into account historical consumption and water purchase data, drought policies, and projected drought impacts. Detailed historical and projected water purchase costs and estimated water sales are shown in Appendix C, Tables 1 and 2.

Table 3 shows a summary of FY 2015/16 wholesale water purchases by source.

Table 3
City of Milpitas - Water Rate Study
FY 2015/16 Wholesale Water Purchases & Estimated Sales¹

Water Purchased	Water Loss %	Water Lost	Water Sold	%
2,352,053	11%	258,726	2,093,327	61%
984,192	11%	108,261	875,931	26%
440,000	0%	<u>0</u>	440,000	13%
3,776,246		366,987	3,409,259	100%
	2,352,053 984,192 <u>440,000</u>	2,352,053 11% 984,192 11% <u>440,000</u> 0%	2,352,053 11% 258,726 984,192 11% 108,261 440,000 0% 0	984,192 11% 108,261 875,931 440,000 0% 0 440,000

¹ Water units in hundred cubic feet (hcf)

Table 4 shows an attribution of variable operating costs (\$15,171,937 from **Table 2**) to each unit of water expected to be sold in FY 2015/16.

Non-water purchase variable costs shown in **Table 2** (includes 25% of personnel services, administrative costs, services and supplies, and estimated additional administration costs) amount to \$1,987,123 and are attributed to each unit of water expected to be sold in FY 2015/16 (~3.4 million hcf). The calculation amounts to \$0.58 per hcf and is referred to as the "base variable cost".

Water purchase costs for each of the three water sources are divided by the estimated amount of water sold from each source in FY 2015/16 to determine the cost per hcf for each source.

The base variable cost is added to the cost per unit for each source of water to determine the total cost per hcf for each source.

The cost of the potable water sources (SCVWD and SFPUC) are weighted based on the percentage of total potable use to determine the blended potable rate of \$4.75 per hcf, shown in **Table 4**. The blended rate includes all costs of the water including wholesale rate increases and water losses.

Table 4
City of Milpitas - Water Rate Study
Variable Rate Cost Attribution

FY 2015/16 Total Variable Costs:	\$15,171,937		
	Non-Water Purchase	Est. Water	Base Variable
	Variable Costs	Sold (HCF)	Cost per HCF
Base Cost per HCF	\$1,987,123	3,409,259	\$0.58
	Water	Water	Water
	Purchased (HCF)	Purchase Costs	Sold (HCF)
SFPUC	2,352,053	\$10,083,024	2,093,327
SCVWD	984,192	2,291,200	875,931
Recycled Water	440,000	<u>810,590</u>	440,000
	3,776,246	\$13, 184, 814	3,409,259
	Cost Per	Plus: Base	Total Cost
	HCF Sold	Cost Per HCF	Per HCF
SFPUC	\$4.82	\$0.58	\$5.40
SCVWD	\$2.62	\$0.58	\$3.20
Recycled Water	\$1.84	\$0.58	\$2.42
	% of Potable	Total Cost	Potable Blended
	Water Sold	Per HCF	Rate per HCF
SFPUC	70.5%	\$5.40	\$4.75
SCVWD	<u>29.5%</u>	\$3.20	
	100.0%		

Using the data and estimates in Table 2 of Appendix C, Table 5 below shows the estimated water use by customer class in FY 2015/16. Residential customers are the largest potable users with an estimated 54% of potable use, while non-City irrigation customers are the largest recycled users with an estimated 92% of the recycled water use. Water use is projected to remain relatively flat for all potable customers due to the ongoing drought.

Table 5

City of Milpitas - Water Rate Study

FY 2015/16 Est. Water Use by Customer Class¹

User Breakdown	Est. Potable	% of Potable	Est. Recycled	% of Recycled	
of Water Sales	Sold	Use	Water Sold	Use	Totals
Residential	1,591,000	54%	-	-	1,591,000
Commercial	434,000	15%	-	-	434,000
Industrial	476,649	16%	4,331	1%	480,980
Institutional	90,000	3%	-	-	90,000
Irrigation	285,000	10%	403,793	92%	688,793
Ed Levin Park	2,610	0%	-	-	2,610
CITY Domestic	10,000	0%	-	-	10,000
CITY Irrigation	80,000	<u>3%</u>	<u>31,875</u>	<u>7%</u>	<u>111,875</u>
	2,969,259	100%	440,000	100%	3,409,259

¹ Units in hundred cubic feet (hcf)

Table 6 shows a comparison of the current rates and proposed rates. Under the proposed rates, potable customers pay the blended cost of potable water, while recycled customers pay the cost of recycled water established in **Table 4**.

Table 6
City of Milpitas - Water Rate Study
Customer Volumetric Charges - \$/HCF

	Curent	FY 2015/16	\$	Est. FY	Est. FY 2015/16
	Rate	Proposed Rate	Increase	2015/16 Use	Revenue
Residential (Current Bimonthly Tiers)					
0-10 HCF	\$2.62	\$4.75	\$2.13	1,081,000	\$5,134,750
11-20	3.48	4.75	1.27	400,000	1,900,000
21-30	4.69	4.75	0.06	110,000	522,500
>31	5.29	4.75	-0.54	0	0
				1,591,000	7,557,250
Commercial/Industrial/Institutional					
and Construction	5.29	4.75	-0.54	1,010,649	4,800,583
Potable Irrigation	5.29	4.75	-0.54	365,000	1,733,750
Santa Clara County (Ed Levin Park) ¹	3.08	3.75	0.67	2,610	9,789
Recycled Irrigation	4.08	2.42	-1.66	403,793	977,180
Recycled Water Industrial / Dual Plumbed	2.65	2.42	-0.23	4,331	10,482
Recycled Water: City of Milpitas	2.51	2.42	-0.09	31,875	77,138
				1,818,259	7,608,921
Total Volumetric Revenue					15,166,171

¹ Rate determined by contract and offset through non-rate revenues (see Table 7)

Ed Levin Park has contracted with the City to be charged the SFPUC wholesale rate of \$3.75. In exchange for the Ed Levin Park contract rate, the County of Santa Clara has given the City a permanent easement on County Park property where the City's Minnis Water Tank is located, as well as other below-ground City water pipelines. The difference in cost will be funded from non-rate revenues, such as miscellaneous revenues, amounting to approximately \$2,609 in FY 2015/16 and estimated to be \$6,948 in FY 2016/17. (The SFPUC rate is estimated to be \$3.79 in FY 2016/17).

Table 7
City of Milpitas - Water Rate Study
FY 2015/16 Non-Rate Revenue

Available Non-rate Revenues

Misc Revenue \$2,609

Mic. User Discount

	Cost of Potable Water	SFPUC Rate ¹	Rate Difference	Est. Annual Water Use	Total Difference
Santa Clara County (Ed Levin Park)	\$4.75	\$3.75	\$1.00	2,610	\$2,609

1 Ed Levin Park is contracted to be charged the SFPUC rate

Meter Charges

Bimonthly meter charges are considered "availability" or "readiness-to-serve" charges for providing customers with access to water at all times. They are designed to recover a portion of the City's fixed costs of providing water service. These charges constitute a fixed portion of the customers' bills because they are levied whether or not water is used. BWA recommends allocating these costs based on each user's proportional capacity in the system as determined by their water meter flow capacity.

According to the California Urban Water Conservation Council (CUWCC) Best Management Practices (BMP) 1.4, the fixed component should be used to recover 30% or less of rate revenues to provide cost incentives to encourage conservation

Table 8 shows a comparison of existing and proposed meter charges and the calculation of proposed meter charges. This study used meter flow ratios identified by the American Water Works Association (AWWA). **Figure A** shows the AWWA recommended meter equivalents.

Figure A

American Water Works Association
Fixed Charge Meter Ratios

Water Meter Size	AWWA*(capacity)	Factor based on 5/8"
5/8 inch	20	1.00
3/4 inch	30	1.50
1 inch	50	2.50
1-1/2 inch	100	5.00
2 inch	160	8.00
3 inch	300	15.00
4 inch	500	25.00
6 inch	1,000	50.00

*Safe maximum operating capacity by meter type, per current AWWA standards, GPM. AWWA Manual M1, Sixth Edition, 2012, Appendix B

BWA recommends that the City align meter charges with the AWWA standard 5/8" meter equivalents. Meter equivalents denote the maximum flow capacity of the meter. Total City water system 5/8" meter equivalents amount to 58,106 (as of September 2015), as shown in Appendix C, Table 5.

In **Table 8,** the proposed meter charges were developed by taking the fixed operating revenue requirement of \$6,276,761 from **Table 2** and dividing it by total Fiscal Year 2015/2016 system meter equivalents of 58,106 to arrive at a bimonthly meter charge of \$18.00 for the base 5/8" meter. This charge is then increased based on AWWA capacity ratios for larger meters. For example, a 1" meter has a capacity ratio of 2.5x and is recommended to be charged \$45.00 bimonthly.

Meters 6" and above were assigned a capacity ratio of 50x.

Based on AWWA guidelines, BWA recommends that fire meters be attributed 20% of the charge of regular meters to denote that these meters are on standby for emergencies, are not regularly used, and fire flow costs are estimated at about 20% of water system fixed costs.

BWA proposed meter charges are designed to recover 30% of operating costs.

Table 8 City of Milpitas - Water Rate Study Fixed Operating Cost Attribution

FY 2015/16 Fixed Operating Costs

\$6,276,761

5/8" AWWA Meter Equivalents

58,106

\$/per 5/8" Meter Equivalent

\$108.02

Bimonthly \$/per 5/8" Meter Equivalent (rounded)

\$18.00

Meter Size 5/8 inch	Current Cost Ratio 1.0	AWWA Meter Equivalents 1.0	Current \$27.36	FY 2015/16 Proposed \$18.00	\$ Increase / Decrease -\$9.36
3/4 inch	1.1	1.5	29.07	27.00	-2.07
1 inch	1.5	2.5	41.28	45.00	3.72
1-1/2 inch	1.9	5.0	52.07	90.00	37.93
2 inch	2.5	8.0	67.96	144.00	76.04
3 inch	6.7	15.0	181.95	270.00	88.05
4 inch	8.4	25.0	230.57	450.00	219.43
6 inch & above ¹	12.9 - 24.4	50.0	351.86 - 667.31	900.00	232.69 - 548.14

	Proposed Meter		FY 2015/16	\$ Increase /
Detector Valve (Fire Meter)	Equivalents ²	Current	Proposed	Decrease
2 inch	1.6	\$43.72	\$28.80	-\$14.92
3 inch	3.0	65.68	54.00	-11.68
4 inch	5.0	72.99	90.00	17.01
6 inch & above ¹	10.0	94.92 - 138.69	180.00	41.31 - 85.08

¹ Meter equivalents capped at 6".

² Fire meter equivalents established at 20% of regular meter equivalents

Capital Costs

Table 9 shows the City water enterprise 5-year capital improvement program for both potable and recycled water sources. The projects are broken down between existing projects identified in the City budget, and additional "unfunded projects." All \$42 million of capital project costs are assumed to be funded in the 5-year study period. The proposed rates include costs for all projects shown in Fiscal Years 2015/16, 2016/17, and 2017/18.

					_	
Table 9 City of Milpitas - Water Rate Study CIP Schedule - Total Capital Projects						
Project Expenses	2015/16	2016/17	2017/18	2018/19	2019/20	Total
Existing Identified Projects						
RMC Contract RW (30% Design, CEQA, Grant) Water Solutions Contract Potable (30% Design,	\$482,000					
CEQA, Grant)	430,000					
Dempsey Road Water Line Replacement Automated Water Meter Replacement Well Upgrade Project	1,000,000	\$1,295,000	\$1,295,000	\$1,295,000	\$1,295,000	
Los Coches Backbone		850,000	3,350,000			
Water System Replacement Study			100,000			
Hillside Pump Station Equipment Replacement			150,000			
Water System Seismic Improvements	1,000,000	1,000,000		1,000,000		
Misc Minor Water Projects 2017		100,000	100,000			
Supervisory Control and Data Acquisition (SCADA)			175,000	500,000	2,325,000	
Hydrant Replacement	0.000.000					
BART Project-Water Improvements	2,000,000					
Water Supply Augmentation Phase 1 (Funded Prior Y Pinewood Well - \$1,300,000 Curtis Well - \$1,400,000	ear)					
Subtotal	\$4,912,000	\$3,245,000	\$5,170,000	\$2,795,000	\$3,620,000	\$19,742,000
Additional Unfunded Projects						
Lower Berryessa Bore and Jack	\$250,000	\$775,000				
VTA BART Utilities Reimbursement Seismic Reliability	200,000	2,000,000				
Water System Replacement 18-19 Water Valve Replacement			600,000	1,000,000		
Water Supply Augmentation Phase 2 Seg. 1 Dempsey RW - \$4.5M Seg. 4 Yosemite RW - \$3.3M	10,000,000					
Seg. 5 Landess RW - \$2.2M Water Supply Augmentation Phase 3 Curtis Well - \$3,300,000		3,300,000				
Water Supply Augmentation Phase 4 Future Additional Wells (\$12,000,000 @ \$4M/Yr.)					4,000,000	
Subtotal	\$10,450,000	\$6,075,000	\$600,000	\$1,000,000	\$4,000,000	\$22,125,000
Total	\$15,362,000	\$9,320,000	\$5,770,000	\$3,795,000	\$7,620,000	\$41,867,000
Potable System Water Augmentation	\$5,362,000 10,000,000	\$6,020,000 3,300,000	\$5,770,000 0	\$3,795,000 0	\$3,620,000 4,000,000	\$24,567,000 17,300,000
Funding Sources: Financed Cash Funded	10,450,000 4,912,000	9,320,000	5,770,000	3,795,000	7,620,000	25,540,000 16,327,000
Total Funding Sources	\$15,362,000	\$9,320,000	\$5,770,000	\$3,795,000	\$7,620,000	\$41,867,000

Capital Surcharges

BWA recommends that the City recover capital costs through a "capital surcharge" levied on water use to recover all system capital costs beginning FY 2016/17.

Potable users are recommended to pay for both potable and recycled (supply augmentation) capital costs. The recycled water capital projects included in **Table 9** "Water Supply Augmentation Phase 2" are planned for the benefit of potable users and would not be constructed except for the benefit that such projects have to potable customers. Benefits to potable users include: additional water supply reliability, an offset of demand for potable water, and an easing of the burden of reducing consumption on potable customers to meet State mandated cutback requirements.

Recycled water users will also benefit from recycled water capital projects, and therefore should share the burden of paying for the projects. The identified recycled water capital projects will help transition the City's recycled water system from an immature to a mature system that will have better reliability from additional system looping, and will increase the availability of recycled water.

Potable users are recommended to have the capital surcharge broken out as a separate charge on their bills to allow users to see how much of their bill is going to fund capital improvements. Recycled users are recommended to be charged a single rate because the recycled component of capital costs is too small to merit special surcharge consideration.

Table 10 shows the detailed capital surcharge calculations and **Figure B** summarizes the proposed potable and recycled capital surcharges. BWA recommends the City finance \$25.54 million of capital in FY 2015/16.

The potable capital surcharge consists of three components charged per potable hcf:

- 1. Debt Funded Capital: BWA estimates debt service on a \$15.54 million borrowing for potable capital to be about \$926,000 per year beginning in FY 2016/17 (4.25%, 30-year financing). The debt service is recommended to be fully funded through a \$0.31 charge on potable use. Additionally, BWA estimates debt service for a \$10 million borrowing for recycled capital to be about \$596,000 per year beginning in FY 2016/17 (4.25%, 30-year financing). The debt service is recommended to be partially funded through a \$0.17 charge on potable use, with the remainder recovered from recycled use. The total debt service charge component of the potable capital surcharge amounts to \$0.48 per hcf.
- **2. Cash Funded Capital:** Beginning in FY 2018/19, the capital surcharge is recommended to fund all new potable capital through a \$1.26 charge component.

3. FY 2015/16 Cash Funded Capital: \$4.9 million of cash funded capital in FY 2015/16 is recommended to be recovered through an \$0.82 charge component on potable use between FY 2016/17 and FY 2017/18.

The recycled capital surcharge consists of one component charged per recycled hcf:

1. Debt Funded Capital: BWA estimates debt service on the \$10 million borrowing for the recycled portion of capital projects to be about \$596,000 per year beginning in FY 2016/17 (4.25%, 30-year financing). The debt service is recommended to be partially funded through a \$0.17 charge on recycled use, with the remainder recovered from potable use.

Table 10
City of Milpitas - Water Rate Study
Fixed Capital Cost Allocation (Capital Surcharge Effective 7/1/2016)

			Projected		
	<u>2015/16</u>	2016/17	2017/18	2018/19	<u>Totals</u>
Financed Potable Capital	\$450,000	\$9,320,000	\$5,770,000	\$0	\$15,540,000
Cash Funded Potable Capital	4,912,000	0	0	3,795,000	8,707,000
Financed Recycled Capital	10,000,000				10,000,000
Potable Debt Service (\$15.54 million be	orrowing)	926,157	926,157	926,157	
Projected Potable Use (HCF)		3,011,610	3,011,610	3,011,610	
Potable Debt Service Charge		\$0.31	\$0.31	\$0.31	
Recycled Debt Service (\$10 million box	rrowing)	595,982	595,982	595,982	
Projected Recycled Use (HCF)		416,218	423,855	431,644	
Projected Recycled & Potable Use (HO	CF)	3,427,828	3,435,465	3,443,254	
Recycled Debt Service Charge		\$0.17	\$0.17	\$0.17	
Potable Customer Surcharge					
Debt Service (Recycled & Potable Cap	oital)	\$0.48	\$0.48	\$0.48	
Cash Funded Capital		\$0.00	\$0.00	\$1.26	
FY 2016 Cash Funded Capital ¹		\$0.82	\$0.82	<u>\$0.00</u>	
Total Potable Capital Surcharge		\$1.30	\$1.30	\$1.74	
Expected Potable Surcharge Revenue		3,915,093	3,915,093	5,240,201	13,070,387
Recycled Customer Surcharge					
Debt Service (Recycled Capital)		<u>\$0.17</u>	<u>\$0.17</u>	<u>\$0.17</u>	
Total Recycled Capital Surcharge		\$0.17	\$0.17	\$0.17	
Expected Recycled Surcharge Revenu	е	70,757	72,055	73,379	216,192
Total Surcharge Revenue		\$3,985,850	\$3,987,148	\$5,313,581	\$13,286,579

¹ Recovered from 2016/17 to 2017/18

Figure BProposed Capital Surcharge Summary

	FY 15/16	FY 16/17
Potable Capital Surcharge (per HCF)	\$0.00	\$1.30
Recycled Capital Surcharge (per HCF)	\$0.00	\$0.17*

^{*}will be included in recycled rate and not shown separately

SECTION 4: RATE INCREASES

Table 11 shows a cash flow schedule for the Operating Fund². Rate increases are needed to meet key financial goals of the water enterprise including:

- Prevent further operating losses (estimated at \$400,000 per month)
- Meet debt service coverage requirements on any new debt issuances
- Maintain at least 30% of operating expenses in reserves
- Fund 5-year capital program
- Smooth out impact on rate payers

In addition to the rate structure adjustments recommended on January 1st 2016, BWA estimates the water enterprise requires overall rate increases to potable and recycled consumption and meter charges of **8%** in FY 2016/17, **8%** in FY 2017/18 and **5%** in FY 2018/19. The overall rate increases do not apply to the capital surcharges, which are calculated solely to recover all projected capital expenses.

The projected expenses are shown in **Table 11**, with operating expenses increasing from \$21.7 million in FY 2015/16 to \$25.9 million in FY 2018/19. Non-operating expenses such as capital expenditures, debt service, and the Ed Levin Rate reduction amount to \$15.3 million in FY 2015/16 and are expected to fluctuate to as low as \$5.3 million in FY 2018/19.

Detailed projections of water use, rate increases, and revenues are shown in Appendix C.

Drought Penalty (for information only, not included in the proposed rates)

There are typically two kinds of water use penalties levied by Cities:

- 1. Penalties for violations of the City's water use restrictions: (e.g., watering landscaping more than two times per week or washing down driveways with water). The City already has such penalties in place.
- **2. Volumetric penalties for excess water use:** For example, use at levels that could cause the City to run out of water.

Penalties for excess use are imposed to encourage high water users to adjust their behavior and, as such, are not considered water rates. Under California Constitution article 13 C, section 1(e), fines and penalties are one of the seven exceptions to the definition of a tax and are not subject to the notice and substantive requirements of Article 13 D. Pursuant to Water Code

-

² The 30% Operating Expense Target was met in FY 2015/16 because reserves were replenished from a recommended \$25.5 million Bank/Interfund Loan issued in FY 2015/16. Funds were depleted as a result of being unable to recover enough revenue to cover costs due to late rate adoption.

section 377(i), a local entity that provides water may enforce water use limitations established by an ordinance or resolution adopted pursuant to Water Code section 375 by imposing a volumetric penalty in an amount established by the public entity. Water agencies often adopt a water shortage contingency plan and include in it fines and penalties for violations.

The City does not currently have volumetric penalties for excess water use, but could adopt them in the future, if needed.

Table 11 City of Milpitas - Water Rate Study Detailed Cash Flow Projection - Operating Fund

	Estimated			Projected		
	2014/15 Es	scalation % Bud	get 2015/16	2016/17	2017/18	2018/1
Beginning Fund Balance (Operating Fund) Cash and Cash Equivalents			\$7,276,000	\$15,103,000	\$8,454,000	\$7,187,00
REVENUES						
			1/15/2016	7/1/2016	7/1/2017	7/1/201
Overall Rate Increases (Exluding Capital Surcharg	je)	Rate	Restructure	8.0%	8.0%	5.0
Operating Revenue ¹						
Potable Meter Charges	\$4,478,476 Ap	pendix C	\$4,829,223	\$6,351,981	\$6,860,502	\$7,203,51
Recycled Meter Charges	206,657 Ap	pendix C	253,489	425,503	459,543	482,51
Potable Volumetric Charges	15,966,897 Ap	pendix C	12,444,524	15,446,056	16,679,746	17,523,65
Recycled Volumetric Charges	1,937,743 Ap	pendix C	1,570,465	1,086,329	1,195,270	1,277,66
Potable Capital Surcharges	- Ap	pendix C	-	3,911,700	3,911,700	5,235,66
Recycled Capital Surchages		pendix C	-	70,757	72,055	73,37
Other Operating Revenue	175,000	0%	175,000	175,000	175,000	175,00
Subtotal Operating Revenue	22,764,773		19,272,701	27,467,327	29,353,817	31,971,38
Non-Operating Revenue						
Bank / Interfund Loan (4.25% 30-Years)			25,540,000			
Subventions and Grants	45,000	0%	45,000	45,000	45,000	45,00
Transfers In	0	0%	0	0	0	,
Interest Income	98,000	0%	98,000	98.000	98,000	98,00
Developer Contributions	0	0%	0	0	0	
Subtotal Non-Operating Revenue	143,000		25,683,000	143,000	143,000	143,00
TOTAL REVENUES	\$22,907,773	\$	44,955,701	\$27,610,327	\$29,496,817	\$32,114,38
EXPENSES						
Operating Expenses						
SFPUC Wholesale Water (Est.)	\$8,576,105 Ap	pendix C	10,083,024	\$10,193,107	\$10,215,417	\$11,485,48
SCVWD Wholesale Water (Est.)	3,004,819 Ap	pendix C	2,291,200	2,634,880	3,030,112	3,484,62
Recycled Water Expenses (Est.)	603,531 Ap	pendix C	810,590	1,013,238	1,291,878	1,647,14
Personnel Services ³	2,597,769	4%	2,702,000	2,810,000	2,922,000	3,039,00
Transfers Out (General Fund Admin Cost Reimb.) ³	2,366,459	4%	2,461,000	2,559,000	2,661,000	2,767,00
Services and Supplies ³	1,917,115	4%	1,994,000	2,074,000	2,157,000	2,243,00
Additional Operating Expenses Subtotal Operating Expenses	<u>- Ap</u> 19,065,799	pendix C	1,422,275 21,764,089	2,125,600 23,409,825	1,186,024 23,463,431	1,233,26 25,899,52
Non-Operating Expenses						
Ed Levin Rate Reduction			2,609	6,896	7,966	8,46
Capital Expenditures (Transfer Out)	3,225,000	Table 9	15,362,000	9,320,000	5,770,000	3,795,00
Bank / Interfund Loan Debt Service	0,223,000	Table 5	13,002,000	1,522,139	1,522,139	1,522,13
Subtotal Non-Operating Expenses	3,225,000		15,364,609	10,849,035	7,300,105	5,325,60
TOTAL EXPENSES	\$22,290,799	\$	37,128,698	\$34,258,860	\$30,763,536	\$31,225,12
Net Revenues	\$616,974		\$7,827,003	(\$6,648,533)	(\$1,266,719)	\$889,26
			15 100 000	\$8,454,467	\$7,187,281	\$8,076,26
Ending Fund Balance (Operating Fund)	\$7,275,776		515.103 003			ψυ,υ ι υ, <u>2</u> 0
	\$7,275,776	\$	\$15,103,003	40, 10 1, 101	4 .,. 0 ., 20 .	
Debt Service Coverage (Currently No Debt)		\$				
Debt Service Coverage (Currently No Debt) Net Operating Revenues	\$7,275,776 3,698,974	\$	(2,491,388)	4,057,502	5,890,386	6,071,86
Debt Service Coverage (Currently No Debt) Net Operating Revenues Total Debt Service		\$		4,057,502 1,522,139	5,890,386 1,522,139	1,522,13
Debt Service Coverage (Currently No Debt) Net Operating Revenues Total Debt Service	3,698,974	\$	(2,491,388)	4,057,502	5,890,386	1,522,13
Total Debt Service Coverage Unrestricted Fund Reserve Target	3,698,974 0	\$	(2,491,388)	4,057,502 1,522,139 2.7	5,890,386 1,522,139 3.9	1,522,13 4.
Debt Service Coverage (Currently No Debt) Net Operating Revenues Total Debt Service Coverage	3,698,974	\$	(2,491,388)	4,057,502 1,522,139	5,890,386 1,522,139	6,071,863 1,522,139 4.0 \$7,769,85

² Equal to three years of capital expenses 3 2014/15 Actuals from Finance Department

Proposed Rate Schedule

Table 12 shows BWA's proposed rate schedule for FY 2015/16 and FY 2016/17.

Table 12

City of Milpitas - Water Rate Study

Water Rate Schedule

BIMONTHLY WATER RATES Meter Charges					
Meter Size	Current Rates	Proposed 2015/16 ¹	\$ Increase	Proposed 2016/17 ¹	\$ Increase
5/8"	\$27.36	\$18.00	-\$9.36	\$19.44	\$1.44
3/4"	29.07	27.00	-2.07	29.16	2.16
1"	41.28	45.00	3.72	48.60	3.60
1-1/2"	52.07	90.00	37.93	97.20	7.20
2"	67.96	144.00	76.04	155.52	11.52
3"	181.95	270.00	88.05	291.60	21.60
4"	230.57	450.00	219.43	486.00	36.00
6" & above	351.86 - 667.31	900.00	232.69 - 548.14	972.00	72.00
Quantity Charges (per hcf)					
Residential (bimonthly tiers)					
1 - 10 hcf bimonthly	2.62	4.75	2.13	5.13	0.38
11 - 20 hcf bimonthly	3.48	4.75	1.27	5.13	0.38
21 - 30 hcf bimonthly	4.69	4.75	0.06	5.13	0.38
>30 hcf bimonthly	5.29	4.75	-0.54	5.13	0.38
Commercial/Industrial/Institutional and Construction	5.29	4.75	-0.54	5.13	0.38
Potable Irrigation	5.29	4.75	-0.54	5.13	
Santa Clara County (Ed Levin Park) ²	3.08	3.75	0.67	3.79	0.04
Recycled Irrigation	4.08		-1.66	2.78	0.36
Recycled Water Industrial / Dual Plumbed	2.65		-0.23	2.78	0.36
Recycled Water: City of Milpitas	2.51	2.42	-0.09	2.78	0.36
Potable Capital Surcharge (per hcf, FY 2016/17)	-			1.30	

¹ BWA proposes the City charge residential a uniform rate per unit of water

Appendix A shows the bill impacts of the proposed rates for a typical residential user based on different levels of water use. The average residential bimonthly bill (using 17 HCF bimonthly) would increase from the current amount of \$77.92 to \$98.75 in FY 2015/16 and \$128.75 in FY 2016/17.

² Contracted to be charged the SFPUC wholesale rate

APPENDIX A - RESIDENTIAL BILL IMPACTS

Appendix A
City of Milpitas - Water Rate Study
FY 2015/16 Residential Bimonthly Bill Impacts - Uniform Tier

	Current Resider	ntial, 5/8" Me	eter		FY 201	5/16 Propose	d Residential, s	5/8" Meter
Bimonthly Use (HCF)	Use Charge	Meter Charge	Bimonthly Bill	Bimonthly Use (HCF)	Use Charge	Meter Charge	Bimonthly Bill	Bimonthly \$ Increase
5	\$13.10	\$27.36	\$40.46	5	\$23.75	\$18.00	\$41.75	\$1.29
10	26.20	27.36	53.56	10	47.50	18.00	65.50	11.94
17	50.56	27.36	77.92	17	80.75	18.00	98.75	20.83
20	61.00	27.36	88.36	20	95.00	18.00	113.00	24.64
30	107.90	27.36	135.26	30	142.50	18.00	160.50	25.24
40	160.80	27.36	188.16	40	190.00	18.00	208.00	19.84
60	266.60	27.36	293.96	60	285.00	18.00	303.00	9.04

Residential FY 2013/14 Avg. Bi-monthly Use: 17.3 HCF

RESIDENTIAL BIMONTHLY WATER RATES - UNIFORM TIER Meter Charges

Meter Size	Current Rates	Proposed 2015/16	% Increase
5/8"	\$27.36	\$18.00	-34%
Quantity Charges (per h Residential (bimonthly tie	•		
1 - 10 hcf bimonthly	2.62	4.75	81%
11 - 20 hcf bimonthly	3.48	4.75	36%
21 - 30	4.69	4.75	1%
31+	5.29	4.75	-10%

Appendix A (Continued)
City of Milpitas - Water Rate Study

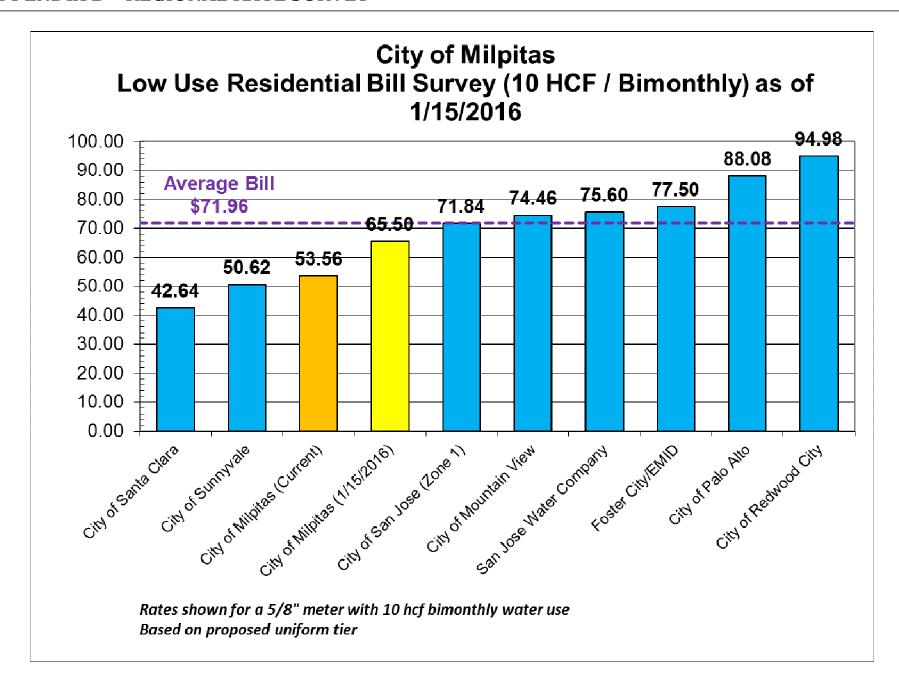
FY 2016/17 Residential Bimonthly Bill Impacts - Uniform Tier

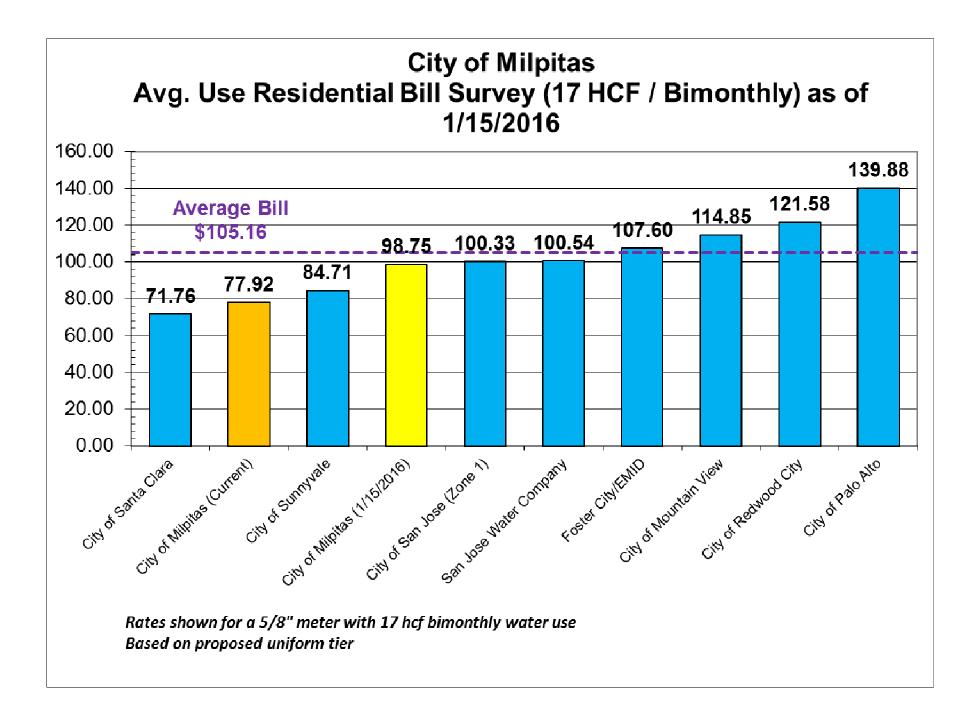
<u>FY</u>	2015/16 Proposed	l Residential, 5/8" M	<u>eter</u>	FY	2016/17 Propo	sed Resi	dential, 5/8"	Meter
Bimonthly Use (HCF)	Use Charge	Meter Charge	Bimonthly Bill	Use Charge	Capital Surcharge		•	Bimonthly \$ Increase
5	\$23.75	\$18.00	\$41.75	\$25.65	\$6.50	\$19.44	\$51.59	\$9.84
10	47.50	18.00	65.50	51.30	13.00	19.44	83.74	18.24
17	80.75	18.00	98.75	87.21	22.10	19.44	128.75	30.00
20	95.00	18.00	113.00	102.60	26.00	19.44	148.04	35.04
30	142.50	18.00	160.50	153.90	39.00	19.44	212.34	51.84
40	190.00	18.00	208.00	205.20	52.00	19.44	276.64	68.64
60	285.00	18.00	303.00	307.80	78.00	19.44	405.24	102.24

Residential FY 2013/14 Avg. Bi-monthly Use: 17.3 HCF

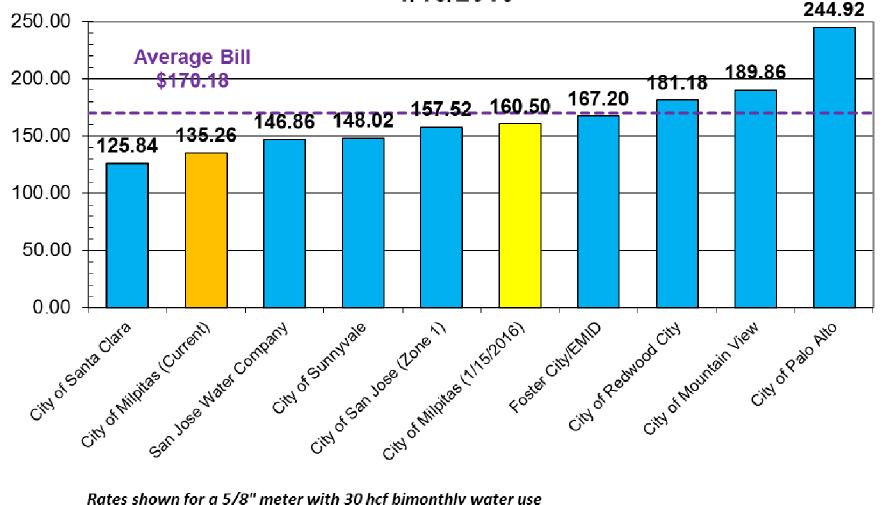
Meter Charges

Meter Size	Proposed 2015/16	Proposed 2016/17	% Increase
5/8"	\$18.00	\$19.44	8%
Quantity Charges (per Residential (bimonthly t	•		
1 - 10 hcf bimonthly	4.75	5.13	8%
11 - 20 hcf bimonthly	4.75	5.13	8%
21 - 30	4.75	5.13	8%
31+	4.75	5.13	8%
Potable Capital Surch	narge (per hcf, FY 2016/17)	1.30	









Rates shown for a 5/8" meter with 30 hcf bimonthly water use Based on proposed uniform tier

APPENDIX C - FINANCIAL DETAIL

Appendix C City of Milpitas - Water Rate Study Table 1 - Wholesale Water Purchases

Potable Water	Actual 13/14	Actual 14/15	15/16 Proposed	16/17 Projected	17/18 Projected	18/19 Projected
SFPUC Quantity Charge, \$/HCF	\$2.45	\$2.93	\$3.75	\$3.79	\$3.79	\$4.32
% Increase		20%	28%	1%	0%	14%
SFPUC Purchased, HCF	3,194,523	2,503,640	2,352,053	2,352,053	2,352,053	2,352,053
% Increase		-22%	-6%	0%	0%	0%
Subtotal: SFPUC Expenditures	\$7,826,581	\$7,335,665	\$8,821,140	\$8,909,352	\$8,909,352	\$10,156,661
% Increase		-6%	20%	1%	0%	14%
SFPUC Monthly Meter Charge	\$14,022	\$14,022	\$14,022	\$14,022	\$14,022	\$14,022
Monthly Debt Service	\$88,127	\$89,348	\$91,135	\$92,958	\$94,817	\$96,713
Subtotal: Annual Fixed Costs	\$1,225,788	\$1,240,440	\$1,261,884	\$1,283,756	\$1,306,066	\$1,328,822
% Increase		1%	2%	2%	2%	2%
Total \$Exp: SFPUC Purchased	\$9,052,369	\$8,576,105	\$10,083,024	\$10,193,107	\$10,215,417	\$11,485,483
% Increase		-5%	18%	1%	0%	12%
SCVWD Quantity Charge, \$/HCF	\$1.79	\$1.94	\$2.33	\$2.68	\$3.08	\$3.54
% Increase		8%	20%	15%	15%	15%
SCVWD Purchased, HCF	1,335,767	1,548,876	984,192	984,192	984,192	984,192
% Increase		16%	-36%	0%	0%	0%
Total \$Exp: SCVWD Purchased	\$2,391,824	\$3,004,819	\$2,291,200	\$2,634,880	\$3,030,112	\$3,484,629
% Increase		26%	-24%	15%	15%	15%
Total: Potable Purchases, HCF	4,530,290	4,052,516	3,336,246	3,336,246	3,336,246	3,336,246
% Increase		-11%	-18%	0%	0%	0%
Total: Potable \$Exp:	\$11,444,194	\$11,580,925	\$12,374,224	\$12,827,987	\$13,245,529	\$14,970,111
% Increase		1%	7%	4%	3%	13%

Recycled Water

WPCP Quantity Charge, \$/HCF	\$1.32	\$1.47	\$1.84	\$2.30	\$2.88	\$3.60
% Increase		12%	25%	25%	25%	25%
WPCP Purchased, HCF	378,528	409,507	440,000	440,000	448,800	457,776
% Increase		8%	7%	0%	2%	2%
Total: Recycled \$Exp:	\$499,657	\$603,531	\$810,590	\$1,013,238	\$1,291,878	\$1,647,144
% Increase		21%	34%	25%	28%	28%

TOTAL: ALL PURCHASES, HCF 4,908,818 4,462,023 3,776,246 3,776,246 3,785,046 3,794,022 % Increase -9% -15% 0% 0% 0%

TOTAL: ALL PURCHASES \$EXP \$11,943,851 \$12,184,456 \$13,184,814 \$13,841,225 \$14,537,407 \$16,617,256 **Increase**

2% 8% 5% 5% 14% Appendix C (Continued)
City of Milpitas - Water Rate Study
Table 2 - Water Use

Potable Water	Actual 13/14	Estimated 14-15	15/16 Proposed	16/17 Projected	17/18 Projected	18/19 Projected
Residential:						
Usage, HCF	2,137,130	2,004,855	1,591,000	1,660,000	1,660,000	1,660,000
% Increase		-6%	-21%	4%	0%	0%
Commercial:						
Usage, HCF	579,485	573,064	434,000	434,000	434,000	434,000
% Increase		-1%	-24%	0%	0%	0%
Industrial:						
Usage, HCF	589,369	602,726	476,649	450,000	450,000	450,000
% Increase		2%	-21%	-6%	0%	0%
Institutional:						
Usage, HCF	120,318	117,728	90,000	90,000	90,000	90,000
% Increase		-2%	-24%	0%	0%	0%
Irrigation:						
Usage, HCF	481,371	376,440	285,000	285,000	285,000	285,000
% Increase		-22%	-24%	0%	0%	0%
Ed Levin Park:						
Usage, HCF	4,599	3,593	2,610	2,610	2,610	2,610
% Increase		-22%	-27%	0%	0%	0%
CITY Domestic Accounts:						
Usage, HCF	16,014	13,297	10,000	10,000	10,000	10,000
% Increase		-17%	-25%	0%	0%	0%
CITY Irrigation Accounts:						
Usage, HCF	142,193	103,277	80,000	80,000	80,000	80,000
% Increase		-27%	-23%	0%	0%	0%
Subtotal: Potable Use, HCF	4,070,479	3,794,979	2,969,259	3,011,610	3,011,610	3,011,610
% Increase		-7%	-22%	1%	0%	0 %

Recycled Water

Irrigation (Piped)						
Usage, HCF	406,575	452,273	403,793	381,824	389,460	397,249
% Increase		11%	-11%	-5%	2%	2%
Industrial Process Use						
Usage, HCF	3,933	4,375	4,331	4,115	4,115	4,115
% Increase		11%	-1%	-5%	0%	0%
City of Milpitas - Irrigation Recycled						
Usage, HCF	28,944	32,197	31,875	30,280	30,280	30,280
% Increase		11%	-1%	-5%	0%	0%
Subtotal: Recycled Use, HCF	439,452	488,846	440,000	416,218	423,855	431,644
% Increase		11%	-10%	<i>-5%</i>	2%	2%

TOTAL: ALL USE, HCF 4,509,931 4,283,825 3,409,259 3,427,828 3,435,465 3,443,254 % Total Use Increase 8% -5% -20% 1% 0% 0%

Appendix C (Continued)
City of Milpitas - Water Rate Study
Table 3 - Water Rates

Potable Water	Actual 13/14	Actual 14/15	15/16 Proposed	16/17 Projected	17/18 Projected	18/19 Projected
Residential:						
Rate, \$/HCF	Varies	Varies	\$4.75	\$5.13	\$5.54	\$5.82
% Increase	-	-	-	8.0%	8.0%	5.0%
Commercial:						
Rate, \$/HCF	\$4.94	\$5.29	\$4.75	\$5.13	\$5.54	\$5.82
% Increase		7%	-10%	8.0%	8.0%	5.0%
Industrial:						
Rate, \$/HCF	\$4.94	\$5.29	\$4.75	\$5.13	\$5.54	\$5.82
% Increase		7%	-10%	8.0%	8.0%	5.0%
Institutional:						
Rate, \$/HCF	\$4.94	\$5.29	\$4.75	\$5.13	\$5.54	\$5.82
% Increase		7%	-10%	8.0%	8.0%	5.0%
Irrigation:						
Rate, \$/HCF	\$5.16	\$5.29	\$4.75	\$5.13	\$5.54	\$5.82
% Increase		3%	-10%	8.0%	8.0%	5.0%
Ed Levin Park:						
Rate, \$/HCF	\$2.45	\$3.08	\$3.75	\$3.79	\$3.79	\$4.32
% Increase		26%	22%	1.0%	0.0%	14.0%
CITY Domestic Accounts:						
Rate, \$/HCF	\$3.98	\$5.29	\$4.75	\$5.13	\$5.54	\$5.82
% Increase		33%	-10%	8.0%	8.0%	5.0%
CITY Irrigation Accounts:						
Rate, \$/HCF	\$3.98	\$5.29	\$4.75	\$5.13	\$5.54	\$5.82
% Increase		33%	-10%	8.0%	8.0%	5.0%

Recycled Water

Irrigation (Piped):						
Rate, \$/HCF	\$3.98	\$4.08	\$2.42	\$2.61	\$2.82	\$2.96
% Increase		3%	-41%	8.0%	8.0%	5.0%
Industrial Process Use						
Rate, \$/HCF	\$2.47	\$2.65	\$2.42	\$2.61	\$2.82	\$2.96
% Increase		7%	-9%	8.0%	8.0%	5.0%
City of Milpitas - Irrigation Recycled						
Rate, \$/HCF	\$2.01	\$2.51	\$2.42	\$2.61	\$2.82	\$2.96
% Increase		25%	-4%	8.0%	8.0%	5.0%

Capital Surcharges

Potable Capital Surcharge, \$/HCF	-	-	-	\$1.30	\$1.30	\$1.74
					0.0%	33.8%
Recycled Capital Surcharge, \$/HCF	-	-	-	\$0.17	\$0.17	\$0.17
					0.0%	0.0%

Appendix C (Continued)
City of Milpitas - Water Rate Study

Table 4 - Actual and Projected Water Sales Revenue

Potable Water	Actual 13/14	Estimated 14-15	15/16 Proposed	16/17 Projected	17/18 Projected	18/19 Projected
Residential:						
Revenue, \$	\$6,456,402	\$6,505,082	\$7,557,250	\$8,515,800	\$9,196,400	\$9,661,200
% Increase		1%	16%	13%	8%	5%
Commercial:						
Revenue, \$	\$2,862,656	\$3,031,509	\$2,061,500	\$2,226,420	\$2,404,360	\$2,525,880
% Increase		6%	-32%	8%	8%	5%
Industrial:						
Revenue, \$	\$2,911,483	\$3,188,418	\$2,264,083	\$2,308,500	\$2,493,000	\$2,619,000
% Increase		10%	-29%	2%	8%	5%
Institutional:						
Revenue, \$	\$594,371	\$622,781	\$427,500	\$461,700	\$498,600	\$523,800
% Increase		5%	-31%	8%	8%	5%
Irrigation:						
Revenue, \$	\$2,483,874	\$1,991,366	\$1,353,750	\$1,462,050	\$1,578,900	\$1,658,700
% Increase		-20%	-32%	8%	8%	5%
Ed Levin Park:						
Revenue, \$	\$11,268	\$11,067	\$9,789	\$9,886	\$9,886	\$11,271
% Increase		-2%	-12%	1%	0%	14%
CITY Domestic Accounts:						
Revenue, \$	\$63,736	\$70,339	\$47,500	\$51,300	\$55,400	\$58,200
% Increase		10%	-32%	8%	8%	5%
CITY Irrigation Accounts:						
Revenue, \$	\$565,928	\$546,333	\$380,000	\$410,400	\$443,200	\$465,600
% Increase		-3%	-30%	8%	8%	5%
Subtotal: Potable Revenue	\$15,949,717	\$15,966,897	\$14,101,371	\$15,446,056	\$16,679,746	\$17,523,651
% Increase		0%	-12%	10%	8%	5%

Recycled Water

Irrigation (Piped):						
Revenue, \$	\$1,618,169	\$1,845,276	\$977,180	\$996,560	\$1,098,277	\$1,175,858
% Increase		14%	-47%	2%	10%	7%
Industrial Process Use						
Revenue, \$	\$9,715	\$11,572	\$10,482	\$10,739	\$11,603	\$12,179
% Increase		19%	-9%	2%	8%	5%
City of Milpitas - Irrigation Recycled						
Revenue, \$	\$58,177	\$80,896	\$77,138	\$79,031	\$85,390	\$89,629
% Increase		39%	-5%	2%	8%	5%
Subtotal: Recycled Revenue	\$1,686,060	\$1,937,743	\$1,064,800	\$1,086,329	\$1,195,270	\$1,277,666
% Increase		15%	-45%	2%	10%	7%
Total Volumetric Revenue	\$17,635,778	\$17,904,640	\$15,166,171	\$16,532,386	\$17,875,016	\$18,801,316
% Increase		2%	-15%	9%	8%	5%

Capital Surcharges

Potable Capital Surcharge Revenue	-	-	-	\$3,911,700	\$3,911,700	\$5,235,660
					0%	34%
Recycled Capital Surcharge Revenue	-	-	-	\$70,757	\$72,055	\$73,379
					2%	2%

Appendix C (Continued)
City of Milpitas - Water Rate Study

Table 5 - Water Meters

Potable Water Customers

Water Meter Size (inches)		(Quantities			5/8" Meter I	Equivalanta
	FY 14/15	FY 15/16	FY 16/17	FY 17/18	FY 18/19	5/6 Meter i	_quivalents
Resid. Accts.(Includes Res. Irr)							
5/8	12,469	12,469	12,469	12,469	12,469	1.0	12,469
3/4	461	461	461	461	461	1.5	692
1	747	747	747	747	747	2.5	1,868
1-1/2	128	128	128	128	128	5.0	640
2	30	30	30	30	30	8.0	240
3	25	25	25	25	25	15.0	375
4	80	80	80	80	80	25.0	2,000
6	150	150	150	150	150	50.0	7,500
8	<u>110</u>	<u>110</u>	<u>110</u>	<u>110</u>	<u>110</u>	50.0	5,500
Subtotal	14,200	14,200	14,200	14,200	14,200		31,283
C/I/I and Irrig. Accts. (includes City Accounts)							
5/8	24	24	24	24	24	1.0	24
3/4	20	20	20	20	20	1.5	30
1	40	40	40	40	40	2.5	100
1-1/2	410	410	410	410	410	5.0	2,050
2	722	722	722	722	722	8.0	5,776
3	88	88	88	88	88		1,320
4	281	281	281	281	281		7,025
6	25	25	25	25	25		1,250
8	<u>20</u>	<u>20</u>	20	<u>20</u>	20		1,000
Subtotal	1,630	1,630	1,630	1,630	1,630		18,575
Fire Accounts	•	·	·	·	· · · · · · · · · · · · · · · · · · ·		
2	0	0	0	0	0	1.6	0
3	0	0	0	0	0		0
4	0	0	0	0	0		0
6	0	0	0	0	0		0
8	460	460	460	460	<u>460</u>		4,600
Subtotal	460	460	460	<u>460</u>	460		4,600
Potable Totals	16,290	16,290	16,290	16,290	16,290		54,458

Recycled Water Customers

Recycled							
5/8	3	3	3	3	3	1.0	3
3/4	0	0	0	0	0	1.5	0
1	8	8	8	8	8	2.5	20
1-1/2	15	15	15	15	15	5.0	75
2	25	25	25	25	25	8.0	200
3	15	15	15	15	15	15.0	225
4	125	125	125	125	125	25.0	3,125
6	0	0	0	0	0	50.0	0
8	0	0	0	0	0	50.0	0
Recycled Totals	191	191	191	191	191		3,648

Total Meter Equivalents 58,106

Appendix C (Continued)
City of Milpitas - Water Rate Study
Table 6 - Water Meter Rates

Water Meter Size (In Inches)	Bimonthly Meter Charge						
	Current 14/15	Proposed 15/16	Projected 16/17	Projected 17/18	Projected 18/19		
		Rate					
Rate Increases		Restructure	8.0%	8.0%	5.0%		
Resid. Accts.(Includes Res. Irr)							
5/8	\$27.36	\$18.00	\$19.44	\$21.00	\$22.05		
3/4	29.07	27.00	29.16	31.49	33.06		
1	41.28	45.00	48.60	52.49	55.11		
1-1/2	52.07	90.00	97.20	104.98	110.23		
2	67.96	144.00	155.52	167.96	176.36		
3	181.95	270.00	291.60	314.93	330.68		
4	230.57	450.00	486.00	524.88	551.12		
6	351.86	900.00	972.00	1,049.76	1,102.25		
8	460.99	900.00	972.00	1,049.76	1,102.25		
C/I/I and lyvin Acets (includes City Accounts)			9.00/	0.00/	E 00/		
C/I/I and Irrig. Accts. (includes City Accounts)	#07.00	¢10.00	8.0%				
5/8	\$27.36	\$18.00	\$19.44	\$21.00	\$22.05		
3/4	29.07	27.00	29.16	31.49	33.06		
1	41.28	45.00	48.60	52.49	55.11		
1-1/2	52.07	90.00	97.20	104.98	110.23		
2	67.96	144.00	155.52	167.96	176.36		
3	181.95	270.00	291.60	314.93	330.68		
4	230.57	450.00	486.00	524.88	551.12		
6	351.86	900.00	972.00	1,049.76	1,102.25		
8	460.99	900.00	972.00	1,049.76	1,102.25		
Fire Accounts			8.0%	8.0%	5.0%		
2	\$43.72	\$28.80	\$31.10	\$33.59	\$35.27		
3	65.68	54.00	58.32	62.99	66.14		
4	72.99	90.00	97.20	104.98	110.23		
6	94.92	180.00	194.40	209.95	220.45		
8	116.77	180.00	194.40	209.95	220.45		
Pagualad			9.00/	9.00/	E 00/		
Recycled 5/8	\$ 07.06	¢10 00	8.0%				
	\$27.36	\$18.00	\$19.44	\$21.00	\$22.05		
3/4	29.07	27.00	29.16	31.49	33.06		
1 1/2	41.28	45.00	48.60	52.49	55.11		
1-1/2	52.07	90.00	97.20	104.98	110.23		
2	67.96	144.00	155.52	167.96	176.36		
3	181.95	270.00	291.60	314.93	330.68		
4	230.57	450.00	486.00	524.88	551.12		
6	351.86	900.00	972.00	1,049.76	1,102.25		
8	460.99	900.00	972.00	1,049.76	1,102.25		

Appendix C (Continued) City of Milpitas - Water Rate Study Table 7 - Water Meter Revenue

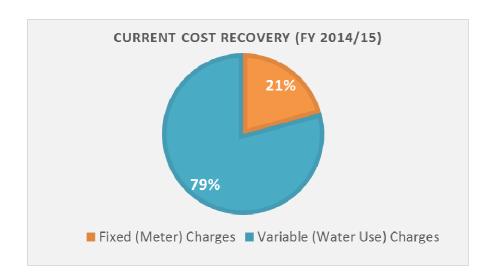
Potable & Recycled Water Meters (Size In Inches)	Annual Meter Revenue						
	Current 14/15	Proposed 15/16	Projected 16/17	Projected 17/18	Projected 18/19		
Resid. Accts.(Includes Res. Irr)							
5/8	¢2 046 011	¢1 246 652	\$1,454,384	\$1,571,094	\$1,649,649		
	\$2,046,911	\$1,346,652					
3/4	80,408	74,682	80,657	87,101	91,444		
1	185,017	201,690	217,825	235,260	247,003		
1-1/2	39,990	69,120	74,650	80,625	84,657		
2	12,233	25,920	27,994	30,233	31,745		
3	27,293	40,500	43,740	47,240	49,602		
4	110,674	216,000	233,280	251,942	264,538		
6	316,674	810,000	874,800	944,784	992,025		
8	304,253	594,000	641,520	692,842	727,485		
	\$3,123,452	\$3,378,564	\$3,648,849	\$3,941,120	\$4,138,147		
C/I/I and Irrig. Accts. (includes City Accounts)							
5/8	\$3,940	\$2,592	\$2,799	\$3,024	\$3,175		
3/4	3,488	3,240	3,499	3,779	3,967		
1	9,907	10,800	11,664	12,598	13,226		
1-1/2	128,092	221,400	239,112	258,251	271,166		
2	294,403	623,808	673,713	727,603	763,992		
3	96,070	142,560	153,965	166,283	174,599		
4	388,741	758,700	819,396	884,948	929,188		
6	52,779	135,000	145,800	157,464	165,338		
8	55,319	108,000	116,640	125,971	132,270		
Ü	\$1,032,739	\$2,006,100	\$2,166,588	\$2,339,920	\$2,456,921		
Fire Accounts							
2	\$0	\$0	\$0	\$0	\$0		
3	0	0	0	0	0		
4	0	0	0	0	0		
6	0	0	0	0	0		
8	322,285	496,800	536,544	579,462	608,442		
·	\$322,285	\$496,800	\$536,544	\$579,462	\$608,442		
Recycled							
5/8	\$492	\$324	\$350	\$378	\$397		
3/4	φ492	φ324	φ330 0	φ376	φ397 0		
1	1,981	2,160	2,333	2,520	2,645		
1-1/2	4,686	8,100	2,333 8,748	9,448	2,043 9,921		
2	10,194						
		21,600	23,328	25,194	26,454		
3	16,376	24,300	26,244	28,344	29,761		
4	172,928	337,500	364,500	393,660	413,340		
6	0	0	0	0	0		
8	\$206,657	<u>0</u> \$393,984	<u>0</u> \$425,503	<u>0</u> \$459,543	<u>0</u> \$482,518		
Potable Total	\$4,478,476	\$5,881,464	\$6,351,981	\$6,860,502	\$7,203,510		
Total	\$4,685,133	\$6,275,448	\$6,777,484	\$7,320,046	\$7,686,028		
% Increase		34%	8%	8%	5%		

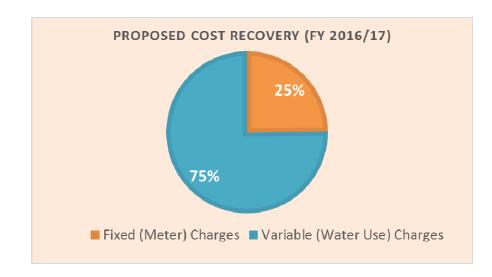
Appendix C (Continued)
City of Milpitas - Water Rate Study

Table 8 - Projected Water Service Revenues

						Projected	
		Current Rates, 2015/16	Prorated 2015/16 ¹	Proposed Rates, 2015/16			
Project Revenues	2014/15	Consumption	Revenue	Consumption	2016/17	2017/18	2018/19
Potable Capital Surcharge	\$0	\$0 -		-	\$3,911,700	\$3,911,700	\$5,235,660
Recycled Capital Surcharge	0	0 -		-	70,757	72,055	73,379
Potable Water Meter Charges	4,478,476	4,478,476	4,829,223	5,881,464	6,351,981	6,860,502	7,203,510
Recycled Water Meter Charges	206,657	206,657	253,489	393,984	425,503	459,543	482,518
Potable Water Volumetric Charges	15,966,897	11,892,242	12,444,524	14,101,371	15,446,056	16,679,746	17,523,651
Recycled Water Volumetric Charges	1,937,743	1,739,020	<u>1,570,465</u>	<u>1,064,800</u>	1,086,329	1,195,270	1,277,666
	\$22,589,773	\$18,316,395	\$19,097,701	\$21,441,619	\$27,292,327	\$29,178,817	\$31,796,383
% Increase from Prior Fiscal Year		-19%	-15%	-5%	27%	7%	9%

1 Includes 9 months of current rates and 3 months of proposed rates





Appendix C (Continued)
City of Milpitas - Water Rate Study
Table 9 - Additional Water Operating Expenses

			Projected I	or Planning	Purposes
Additional Operational Costs	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20
Drought Program (Eduction and Enforcement)	\$600,000	\$600,000			
Bartle Wells Rate Study	60,000	60,000			
Harris Staff Support	60,000	0			
Utility Maintenance Staffing	82,500	290,000	301,600	313,664	326,211
UM Equipment (vehicles)	5,000	25,000			
Utility Engineering Staffing	49,875	172,800	179,712	186,900	194,376
RMC Staffing Support	170,000	300,000			
40% Funding of Inspector	14,400	57,600	59,904	62,300	64,792
80% Funding of Design Associate	50,500	115,200	119,808	124,600	129,584
Water Model Software Annual Cost	5,000	5,000	5,000	5,000	5,000
Emergency Pipeline Repairs	325,000	500,000	520,000	540,800	562,432
Total	\$1,422,275	\$2,125,600	\$1,186,024	\$1,233,265	\$1,282,396





455 E. Calaveras Blvd. Milpitas, CA 95035

Proposition 218 Notification NOTICE OF PUBLIC HEARING ON WATER RATES

PRESORT STANDARD U.S. POSTAGE PAID SANTA CLARA, CA PERMIT NO. 294

ECRWSS

Para recibir esta información en español, por favor deje un mensaje al (408) 586-3354 i incluyendo su nombre completo y domicilio postal.

若要取得此資料的中文譯本,請致電 (408) 586-3354,並留下您的全名和郵寄地址。

Để nhận thông tin này bằng tiếng Việt, xin để lại tin nhắn tại số (408) 586-3354 cùng với tên họ và địa chỉ gửi thư của quý vị.

यह जानकारी हिंदी में प्राप्त करने के लिए, कृपया अपने पूरे नाम और डाक पते के साथ (408) 586-3354 पर एक संदेश छोड़ दें।

Postal Customer

Public Hearing Date & Time: December 15, 2015, at 7:00 PM (or as soon thereafter as possible)

Hearing Location: Milpitas City Hall, City Council Chambers

455 E. Calaveras Blvd., Milpitas, CA 95035

For questions or more information: (408) 586-3354

Reasons For The Proposed Rate Increases

The City of Milpitas (City) is committed to providing high quality, reliable water service at the lowest possible rates for our customers. It is critically important that the City continually invests in the assets it holds and keeps pace with inflation and other cost increases. Each year, the City evaluates infrastructure needs, programs, and operations and maintenance costs for the next fiscal year. This year, the City hired an independent rate consultant to determine how to best recover projected costs over a two-year period. Based on this evaluation, the City has determined that rate increases are necessary to: recover current and projected costs of operations and maintenance, construct capital infrastructure improvements to repair and replace aging infrastructure and provide safe and reliable drinking water; maintain the operational and financial stability of the water utility; and avoid operational deficits and depletion of reserves. The City is also faced with cost of service increases from its water wholesalers—San Francisco Public Utilities Commission (SFPUC) wholesale water rate increased by 28% and Santa Clara Valley Water District (SCVWD) wholesale rate increased by 20%. Finally, the City anticipates a 30% reduction in water use and commensurate revenue losses due to conservation measures to address the ongoing drought. The City is moving from a tiered rate to a uniform water rate. The rate consultant also recommended operating costs be recovered by approximately 30% from fixed charges and 70% from volumetric charges, and to establish a per unit capital surcharge to recover costs for the capital improvement program, which is planned to be financed.

Basis of Proposed Rates

Article XIIID of the California Constitution (also known as Proposition 218) requires that providers of public utility services levy service charges that are clearly linked to the cost of providing the service to each parcel. The cost of service calculation includes expenses such as debt service, labor, energy, regulatory compliance and reporting, chemicals and other supplies, and the cost of providing required maintenance of the system. The rates proposed herein are designed to meet all legal requirements and fairly and equitably recover the required revenue from all customers. The rates were developed by an independent consultant (retained by the City) and the report—which includes detailed calculations showing the basis for these fees--is available for viewing at the City Hall Information Desk and can be found on the City's website: www.ci.milpitas.ca.gov

Basis Upon Which The Proposed Rates Are Calculated

The rate structure for the water service charges has two components: (a) a Water Meter Charge, which is a fixed bimonthly charge determined on the basis of the size of the water meter (in inches) serving a customer's property and calculated to recover a portion of the City's fixed costs in providing water service; and (b) a Quantity Charge, which is a uniform rate imposed on the amount of water delivered to a customer in hundreds of cubic feet ("HCF") and calculated to recover a portion of the City's fixed and variable costs of providing water service. The rate structure also has a Fire Meter Charge which is: (a) imposed on certain properties requiring a large private fire suppression system; and (b) established on the basis of the size of the fire service line (in inches) and calculated to recover the cost of providing water to such properties for private fire service protection. Beginning April 1, 2016, the rate structure will also include a Capital Surcharge, which will be imposed on the basis of the amount of water delivered to a customer in HCF and calculated to recover capital costs of the water system.

Proposed Rates

The City is proposing to modify its rate structure and increase the rates for its water service charges over a two-year period. The typical single family residential customer in the City uses 8.5 units of water per month (one unit is equal to one HCF or 748 gallons of water). The average cost per single family residence starting in January 2016 would increase by \$10.42 per month (from \$38.96 to \$49.38). The average cost per single family residence starting in April 2016 would increase by \$15.00 per month (from \$49.38 to \$64.38). Current and proposed water service charges (bi-monthly) are set forth in the tables below:

Fixed Meter Bi-Monthly Charges

Tixed victor bi-violiting charges							
Meter Size	Current	Rate	Rate				
	rate	Effective	Effective				
		1/15/16	4/1/16				
5/8 inch	\$27.36	\$18.00	\$19.44				
3/4 inch	\$29.07	\$27.00	\$29.16				
1 inch	\$41.28	\$45.00	\$48.60				
1-1/2 inch	\$52.07	\$90.00	\$97.20				
2 inch	\$67.96	\$144.00	\$155.52				
3 inch	\$181.95	\$270.00	\$291.60				
4 inch	\$230.57	\$450.00	\$486.00				
6 inch and	\$351.86-	\$900.00	\$972.00				
above	\$667.31						

Fire Meter	Ri-Monthly	Charges
THE MELLI	DI-MIOHUM	Charges

rire Meter Di-Monthly Charges						
Fire	Current	Rate	Rate			
Service	rate	Effective	Effective			
Line Size		1/15/16	4/1/16			
2 inch	\$43.72	\$28.80	\$31.10			
3 inch	\$65.68	\$54.00	\$58.32			
4 inch	\$72.99	\$90.00	\$97.20			
6 inch and	\$94.92-	\$180.00	\$194.40			
above	\$138.69					

Quantity Charges per HCF*

(Total Quantity charge = volumetric charge + capital surcharge)

Current	Volumetric	Volumetric	Capital
charge	charge	charge	surcharge
	effective	effective	effective
	1/15/2016	4/1/2016	4/1/2016
\$2.62	\$4.75	\$5.13	\$1.30
\$3.48	\$4.75	\$5.13	\$1.30
\$4.69	\$4.75	\$5.13	\$1.30
\$5.29	\$4.75	\$5.13	\$1.30
\$5.29	\$4.75	\$5.13	\$1.30
\$5.29	\$4.75	\$5.13	\$1.30
\$3.08	\$3.75	\$3.79	NA
\$5.29	\$4.75	\$5.13	\$1.30
\$4.08	\$2.42	\$2.78	NA
\$2.65	\$2.42	\$2.78	NA
\$2.51	\$2.42	\$2.78	NA
	\$2.62 \$3.48 \$4.69 \$5.29 \$5.29 \$5.29 \$3.08 \$5.29 \$4.08 \$2.65	charge charge effective 1/15/2016 \$2.62 \$4.75 \$3.48 \$4.75 \$4.69 \$4.75 \$5.29 \$4.75 \$5.29 \$4.75 \$5.29 \$4.75 \$3.08 \$3.75 \$5.29 \$4.75 \$2.42 \$2.42	charge charge effective charge effective 1/15/2016 4/1/2016 \$2.62 \$4.75 \$5.13 \$3.48 \$4.75 \$5.13 \$4.69 \$4.75 \$5.13 \$5.29 \$4.75 \$5.13 \$5.29 \$4.75 \$5.13 \$5.29 \$4.75 \$5.13 \$3.08 \$3.75 \$3.79 \$5.29 \$4.75 \$5.13 \$4.08 \$2.42 \$2.78 \$2.65 \$2.42 \$2.78

^{*} 1 HCF = 748 gallons

To Protest These Changes

Any record owner of a parcel upon which the water service charges are proposed for imposition, and any utility customer directly responsible for the payment of water service who is not a property owner, may submit a written protest to the proposed water service charges; however, only one written protest will be counted per identified parcel. Any protest must: (1) be in writing; (2) state that the identified property owner or utility customer is opposed to the proposed water service charges; (3) provide the location of the identified parcel (by street address, assessor's parcel number, or customer account number); and (4) include the name and signature of the property owner or utility customer submitting the written protest.

Written protests may be submitted by U.S. mail or in person to City Clerk's Office located at Milpitas City Hall, 455 E. Calaveras Blvd., Milpitas, CA 95035, or at the public hearing to be held on December 15, 2015 at 7:00 p.m. To be counted, all written protests must be received between now and prior to the conclusion of the public comment portion of the public hearing. Any protest submitted via e-mail or other electronic means will not be accepted as a qualified formal written protest. Please identify on the front of the envelope, whether mailed or submitted in person, Attn: Water Rates.

The City Council will hear public comments and consider the written protests regarding the proposed water service charges at the public hearing. Oral comments at the public hearing will not qualify as formal protests unless accompanied by a proper, written protest. Upon the conclusion of the public hearing, the City Council will consider adoption of the proposed water service charges as described in this notice. If a majority of the affected property owners and utility customers timely file written protests, the proposed charges may not be imposed.